



Inspecting the first copies of the Estate Planning booklet are those responsible for its preparation. From left, Norman Elliott, Richard Schonberg, Joseph Washburne, Charles Dunbar, Lewis Friedman, Beverly Goldstein and Stanton Ehrenson.

Now Is The Time

Now that the hustle-bustle of the holidays is just a memory, it's the time of year to focus on New Year's resolutions. A tidy and very important one is suggested in the booklets mailed this week to all AUI active and retired employees: that of getting our affairs in order to save as much as possible of our assets for our heirs.

Estate Planning and your Family's Security, along with its companion *Inventory*, will help you do just that. The need for help in this area, geared to the AUI employee, had been voiced by the Brookhaven Council; and Lewis Friedman and Stanton Ehrenson, representing the Council, were instrumental in the initial planning of the booklets. Produced by the Personnel Department, the two-booklet package is being published in the hope that present and retired employees will gain an increased awareness of one of life's most serious problems - protecting family security after death.

The text has been written by Charles Dunbar, AUI's retired secretary and legal counsel; Norman Elliott, retired BNL chemist; Beverly Goldstein, public relations assistant, and the late Lew Burchill, former AUI controller-treasurer.

Brown and Keeley - BERA Election Victors



Robert Brown Helen Keeley

Robert Brown of Medical and Helen Keeley of the Accelerator are the newly elected BERA Board trustees. They will replace Kay Hunt and Michael Zguris, the outgoing Board trustees.

Bob and Helen will be joining present Board members Kenneth Batchelor, Audrey Blake, Charles Flood and Josephine Gazzola on March 1.

At this time the Board wishes to thank the members of the nominating committee, the candidates, and all BERA members for their interest and cooperation during the election.

Concert

The distinguished American pianist Ruth Laredo will present a recital of works by Beethoven, Scriabin, Rachmaninoff and Ravel on Wednesday, February 4, at 8:30 p.m. in Berkner Hall.

Adult	\$3.50
Full time student (with I.D.)	1.75
Over 65	1.75
Under 18	1.00

Written as a non-technical introduction to estate planning, the main text attempts to bring together the fundamental considerations involved in financial planning. It suggests, rather than fully answers, the questions, that must be solved before an effective estate plan can be developed. Wills, probate, gifts, taxes, trusts, joint ownership, insurance assignment, and the retirement plan and other benefits are among the subjects discussed.

The "homework" book, *Inventory*, not only helps to develop an estate plan by inventorying assets and liabilities, but also serves as an invaluable aid to family members in any number of emergencies. Vital statistics, credit card and serial numbers, the whereabouts of important records and papers - even special wishes concerning final arrangements - can be documented.

Death too often strikes leaving family members in a quandary as to where to turn. It is sincerely hoped that these booklets will help answer employees' needs.

An Opportunity

Training has always been important and in this highly technological society in which we live, to be without a skill is, indeed, a handicap.

The Laboratory's Craft Apprenticeship Training Program offers an opportunity to acquire such a skill. The call is out that applications are available for three openings for apprentices: two in the refrigeration and air-conditioning trade and one as an electrician. The deadline for receipt of applications is March 5.

Since 1969, when this program began, nine employees have graduated. Four are now working as refrigeration and air conditioning engineers, four as electricians and one as an experimental machinist. Currently, six others are at various levels of the four-year program of learning a trade.

To be eligible, applicants must be no more than 38 years old (maximum age 40 if applicant served in Armed Forces); be a high school graduate, or have equivalent training; have been employed at the Laboratory at least three months; if an IBEW bargaining unit employee, be in 7th labor grade or below; if a nonbargaining unit employee, be at level III or below, at a salary no higher than \$222 per week.

The program is highly competitive. Last year, 60 employees applied. Though traditionally these particular trades have been a male preserve, times are a-changing, and women are encouraged to compete. Any employee who applied once before but didn't make it, is eligible to try again, but a new application is required.

The Personnel Office at 58 Brookhaven Avenue has full details of the program. The people to talk to there are Ric Villacara, George Sabine and Willie Drinks. Pick up an application soon and make arrangements to get a copy of your high school transcript or other certificate of training to accompany your application. There is absolutely nothing to be lost in trying and perhaps a whole new life style to be gained.

Creating Order Out Of Chaos

When the Hindenburg, a German, hydrogen-inflated airship crashed in flames at Lakehurst, New Jersey in May 1937, killing over half the people aboard, with it plummeted the airship industry and hydrogen became a villain. The cause of the fire was attributed to a discharge of atmospheric electricity in the vicinity of a hydrogen leak.

Some 35 years later, after a meeting of the American Chemical Society in Boston, a group of scientists who were studying hydrogen as a synthetic fuel, retired to a local bistro to relax and talk over the day's events. During the course of the evening, the Hindenburg disaster and the resulting poor image of hydrogen was a topic of conversation. Before the evening was out, an informal organization dubbed the H₂indenburg Society "dedicated to the safe utilization of hydrogen as a fuel," was born.

Frank Salzano, a DAS chemical engineer, was a founding father, one of 12 present that night. "It's somewhat mythical," says Salzano referring to the society, "in fact, it doesn't exist in any formal sense." However, the creation of the society did generate some publicity about hydrogen. The scientists involved, all enthusiastic about the use of hydrogen, feel it is a misunderstood element that has great potential for replacing fossil fuels as well as being able to be produced from nuclear as well as solar energy.

When he was Chairman of DAS, Warren Winsche, now Associate Director for Energy, in trying to answer the question "where do we go when gas, oil and coal run out?" pushed the study of hydrogen as a synthetic fuel. Hydrogen can be easily produced by water electrolysis using nuclear energy, solar energy, wind energy, geothermal energy, etc. DAS chemist, S. Srinivasan, is currently working on ways to improve the efficiency of water electrolysis.

The storage of hydrogen is a major factor. On board the ill-fated Hindenburg, the hydrogen was contained in rubberized cloth bags, and as Salzano says, "hydrogen

is leaky." Even though safety precautions were taken on the airship - no smoking at all except in a special room, the wearing of sneakers by maintenance personnel, and other efforts to avoid sparks - the Hindenburg, according to Salzano, "was literally a floating bomb." The Society feels that an airship, no matter what it is inflated with, is probably a good candidate for disaster. Although they are not interested in bringing back airships, they would like to disassociate hydrogen from this particular catastrophe.

Hydrogen can be stored as a high pressure gas, but the steel cylinders are bulky and expensive. It can also be stored in liquid form but the liquefaction process takes a great deal of electrical energy and is not practical for most applications.

Hydrogen can be stored in a metal hydride, such as the iron-titanium hydride developed by chemists R.H. Wiswall and J. J. Reilly of DAS. Salzano describes the technique this way: "The iron titanium alloy is loaded into a storage tank. Hydrogen is added and reacts at room temperature with the iron titanium to form an iron titanium hydrogen compound. During the formation of the compound, heat is evolved and carried by pipes which penetrate the tank and through which cold water is circulated. When hydrogen is to be released from the tank, warm water is circulated through the same pipes. The heat supplied from the warm water causes the compound to decompose making the hydrogen available for whatever application is required. This technique offers the compactness of storage of liquid hydrogen, as well as the safety and simplicity of high pressure gas storage, without the need for large bulky systems."

Hydrogen is used extensively in industry. One common application is the hydrogenation and hardening of oils in the manufacture of margarine. It is used in refinery operations. Salzano cited an article in *Science* that described the use of a hydrogen-

(Continued on page 2)



Frank Salzano, a member of the H₂indenburg Society, an informal group of scientists who have been working to overcome the fear of hydrogen created by the much-publicized crash of the airship Hindenburg in 1937.

A³ Committee In Session



Affirmative Action Advisory Committee members met with Medical and Accelerator department representatives recently. Members (in italics) are *Scheffel, Ruth Wright*, John Grisoli, Renee Flack, Claire Shellabarger, appointed by the Director for a term of two years. From far left, clockwise, are: *Paul Atkins* (chairman), *Robert Thomas, Helen Keeley, Harvey Thomas* *Jerry Levine, Ralph Brown.* (Assistant to the Director for Affirmative Action), *Clarence Robbins, Frances*

Bookmobile Schedule

The Bookmobile, a small traveling library, visits the Laboratory every other Friday from 1:15 to 2:15 p.m. It parks in the Applied Math lot at the corner of Technology & Brookhaven Avenues.

To check out books you need a card from the Suffolk Cooperative Library System. The Bookmobile can issue cards to on-site residents and employees with proof of identification such as a Laboratory I.D. card or a housing receipt. Books may be borrowed for four (4) weeks except reserve books which may be kept for only two weeks.

The collection includes new books, children's books, fiction, biography, science, politics & history. Foreign language books, large print books or other books not in their collection can be borrowed by the Bookmobile from other libraries.

Through June, the Bookmobile is scheduled to be at the Laboratory on: February 6 & 20; March 5 & 19; April 2, 16 & 30; May 14 & 28; June 11 & 25.

Cooking Exchange

The Cooking Exchange will not have its regular meeting on Wednesday, February 4. The next meeting will take place on Wednesday, February 18.

To volunteer your favorite soup recipe, call Majorie Stone at 281-1169.

Hindenburg

(Cont'd)

air mixture where hydrogen acted as a free radical scavenger in a cancer treatment. In the bubble chamber at Brookhaven, large quantities of hydrogen are used. In all these applications, the safety record is outstanding.

Automotive applications using hydrogen as a fuel have been under study at Brookhaven for several years, namely by K.C. Hoffman, Charles Waide, and James Reilly. Recently, on a trip to Europe, Salzano was driven in a demonstration automobile developed by a German manufacturer which runs on iron-titanium, the same material developed at Brookhaven for storage applications. A converted 6-cylinder engine has been modified to burn hydrogen. The compound, in granular form, is contained in a metal cylinder which sits under the second seat behind the driver.

No one disputes that hydrogen must be treated with profound respect. It is highly combustible. But when hydrogen burns, it has very little radiant heat. Salzano suggests that there would have been no survivors of the Hindenburg had natural gas been in the air bag, and that people were killed as much as a result of the impact of the crash as from the fire.

Books continue to be written about this catastrophe and now a movie is making the rounds. Salzano is looking forward to seeing it. In the meantime, the research proceeds and, in time, the scientists hope the high drama will be removed and hydrogen will emerge as an element with many safe, practical applications.

Simon Pasternack Dies

Simon Pasternack, editor of Physical Review D (Particles and Fields), died at age 61 at his home in Blue Point on January 26.

Pasternack, a theoretical physicist, was a member of the Laboratory staff from 1947 to 1951 at which time he joined the Physical Review as an assistant editor. He became editor in 1958. As the journal expanded, he focused his attention on work relating to high energy physics. The prestige of the Physical Review is in no small way due to his insistence on maintaining the highest standards in journal publication. The Physical Review is based at Brookhaven and Pasternack was well known to the Laboratory staff.

He was a fellow of the American Physical Society and of the American Association for the Advancement of Science. He was also a vigorously active member of the



Simon Pasternack

Publication Board of the American Institute of Physics, and gained international recognition for his service to various Commissions of the International Union of Pure and Applied Science.

Born in Canada, he received his bachelor's degree from the University of Alberta and a doctorate in 1939 from the California Institute of Technology. Before coming to the Laboratory, Pasternack taught at San Bernardino Valley Junior College, and for five years at the University of Pennsylvania.

In a eulogy at Pasternack's funeral Maurice Goldhaber said, "he was too modest to remind even his friends of the great contribution he made to the understanding of one of the most fundamental structures in physics, the hydrogen atom. While a student at Cal Tech he concluded in 1939 by careful analysis of the then available

The Role Of The Consumer

Laboratory Director George Vineyard and Associate Director for Energy Warren Winsche were invited to participate in a conference on consumer representation called by the White House January 16, in Boston.

It is reported that President Ford is not in favor of a separate consumer agency and is expected to veto a bill currently being resolved by the House and Senate which would create such an agency. Instead, the White House has required the executive branch departments to develop individual plans for consumer representation and proposes the appointment of consumer advisers within the departments, as well as increased efforts to take consumer advice into account on policy questions.

The Boston meeting was one of several being held in various cities around the country to solicit comments from the public on White House plans. ERDA is one of the participating government agencies and was represented by Austin N. Heller, Assistant Administrator for Conservation.

After presentations from spokesmen for the Federal Energy Administration, Environmental Protection Agency, Department of the Interior, Department of State, Council of Economic Advisors and ERDA, the meeting broke up into workshops. Winsche said most of the questions to ERDA were concerned with solar energy. Various consumer spokesmen suggested that more ERDA information be available in public libraries, and that an ERDA regional office should be established in the northeast.

Hospitality Committee News

The next morning coffee will be held on Tuesday, February 3, in the Brookhaven Center, from 9:30 to 11:30 a.m. Babysitting will be available at no cost.

Mrs. Miyako Iizumi will demonstrate the intricate technique of wrapping the kimono and will explain some of the traditions associated with the kimono.

spectral data, that there was an important discrepancy between theory and experiment. His work was taken seriously by many theoreticians, including Sommerfeld. After the war Willis Lamb's detailed investigation led to his great result and to much theoretical progress. Perhaps it would not be wrong to refer to this effect as the Pasternack-Lamb shift."

Besides his wife, Ruth, Pasternack is survived by a son, Eric, and two daughters, Louise Rafferty and Irene. In lieu of flowers, the family requests that donations be made to the Simon Pasternack scholarship fund at the James Wilson Young High School, Bayport. The scholarship is to be awarded to a student in the school district who excels in mathematics and science.

Arrivals & Departures

Arrivals

Kaye L. Brown Plant Engr.
Robert E. Caulfield Staff Services
Emilie Gerard Medical
William S. Guthrie Plant Engr.
Helga Olender App. Science
Frank J. Raska Central Shops
John F. Ryan Accelerator

Departures

Arthur B. Scott Applied Math.

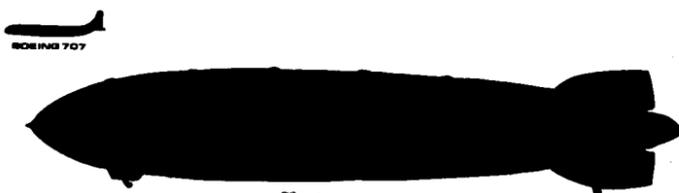
Stony Brook Events

Lecture - "Modern Technology and Modern Disease," by Dr. Marvin Kuschner, Dean School of Medicine, February 2, 8 p.m., Room 147, Bldg. F, South Campus.

Lecture-Dance Demonstration - "The Dance of Life: The Demonic to the Sacred" sponsored by Society of Friends, February 7, 8:00 p.m., Room 236, Student Union. Donation \$2 adults, \$1 sr. citizens, students.

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

The H₂indenburg Society



Hindenburg

Founded May 6, 1972 on the

35th Anniversary of the end of the Hindenburg
Dedicated to the Safe Utilization of HYDROGEN as a Fuel

J. J. Salzano

Has Been Designated
A FELLOW by Action of the
Board of Directors on 6 MAY 1972

Denck P. Guyon
President

Wm Escher
Secretary

Salzano's certificate of membership in the H₂indenburg Society. Note the size of the Hindenburg (804 feet long) in comparison to Boeing 707.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of
Brookhaven National Laboratory

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Letters To The Editor

To the Editor:

Last week Charles McDermott, former cashier and former police officer of BNL, passed away. His many friends, both here and retired, would like to be aware of this.

Thank you very much,
R. McKenzie
Health Physics & Safety

In Memoriam

Robert B. Hupper, a Facilities Engineer in Plant Engineering and a Laboratory employee since May 13, 1964, died on January 22, 1976.

He worked with Bob Terwilliger who described him as an excellent engineer, "whom we all enjoyed working with all the years he was here."

Hupper graduated from Massachusetts State College with a B.S. in 1939. He lived in Glen Cove and is survived by his wife Betty and two children.

Rambling Around

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

- An annoying tendency at gas stations the last couple of years has been for the attendant to "top off" the car's tank after the automatic cut-off. This practice usually results in spillage and is a pointless waste of gasoline. One way of curbing this waste is to ask for a set dollar amount, rather than fill 'er up.
- On the subject of cars, some drivers carry a bag of cat litter in their car trunks. The gritty litter can be used to give a car increased traction in snow or on ice. It's also more easily obtainable than ashes or sand.
- With, no doubt, tongue in cheek, the British medical magazine, *The Practitioner*, classifies bird watching as a "hazardous hobby." It reports the case of a bird watcher who was so oblivious to other forms of wildlife that he was eaten by a crocodile.
- In writing about a former BNL employee who had moved elsewhere, a medical magazine noted that he had been a staff member at the Brookhaven National Laboratory in uptown New York.
- Bumper Sticker: Be alert
Everybody loves lerts.

Official & Special Events

Monday, February 2
Susquehanna University Tour

Wednesday, February 4
BERA Concert - Berkner Hall -
8:30 p.m.

Wednesday, February 11
Navy Meeting

Thursday, February 12
Lincoln's Birthday

Avoid changing thermostat settings more than twice a day. Changes are costly.

Good Housekeeping checked how much faster water boils in a covered pot. Using the same pot, amount and temperature and water, there was a 20 percent saving on gas and electric ranges with the covered pot.

Every degree higher than a 68° thermostat can add 3% to your heating bill.

At 55 mph, you use 8-10% less gasoline than at 65 mph.

January Retiree



Nora Bolster, a Dietary Services Assistant in the Medical Department since April 7, 1958, will be retiring from the Lab on January 30.

Cafeteria Menu Week Ending February 6, 1976

Monday, February 2	
Cream of Mushroom Soup	1.10
Chicken a la King on Rice	1.00
Cheese Omelet & 1 veg.	1.00
Tuesday, February 3	
French Onion Soup	
Stuffed Pepper & 1 veg.	1.15
Beef Stew on Rice	1.20
Wednesday, February 4	
Split Pea Soup	
Flounder & 1 veg.	1.10
Chuck Wagon Special \$1.87 plus tax	
Thursday, February 5	
Cream of Chicken Soup	1.00
Macaroni & Chopped Beef	1.20
Veal Pattie & 1 veg.	1.20
Friday, February 6	
Fish Chowder	
Broiled Filet & 1 veg.	1.10
Boiled Pastrami & 1 veg.	1.20

Slim & Trim With Yoga

A series of 10 yoga classes will be held on Wednesday evenings from 5:30 to 6:30 in the Recreation Building starting on February 18.

The classes will be under the leadership of Suzanne Mughabghab who had previously conducted a similar program at the Laboratory.

A fee of \$20 for the 10-class series, based on a minimum of ten participants, will be due at the first session.

For reservations call Eena-Mai Franz at extension 4337 or Gay Levine at 929-8725.

Will the person who has SYMPOSIUM ON NEUTRON SCATTERING. 4TH. 1968, VOL. I, please call the Research Library, Ext. 3483.

Thinking Only Of Beethoven



Rehearsals for "You're A Good Man Charlie Brown" are coming down to the wire at Stage II. Bill Love (Physics) tickles the ivories in his part as Schroeder, the mini musical genius.

A Girl's Best Friend

Friday, February 13, will be Diamond Power Night at the Nets. The first 4000 people arriving at the Nassau Coliseum that evening will be given a stone, six of which will be real diamonds valued at \$400 each. A jeweler will be there to appraise the stones and if you are one of the lucky six, your diamond will be put in a setting for you free of charge. What a great way to solve your St. Valentine gift giving to your lady.

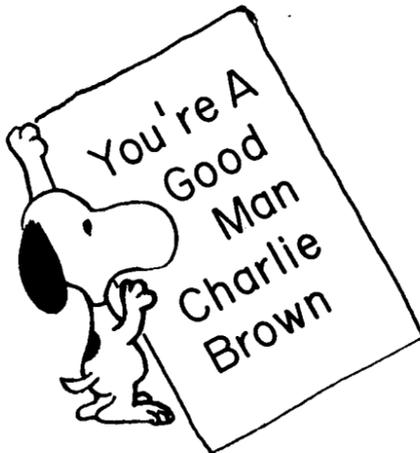
On sale now at the BERA Sales & Services in the Cafeteria are 20 tickets at \$2 each to the Nets/St. Louis game being played that night. Run over and get yours today.

Trip To New York City

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, March 3. Departures will be 8:59 a.m. from the LIRR station in Patchogue. The round trip fare for adults is \$2.45; children under 6 years ride free.

There are some tickets still available for a two-hour backstage tour of the Metropolitan Opera House on March 3, beginning 3:45 p.m., at a cost of \$4 for each non-Guild member. Opera Guild members pay only \$2. The deadline for reserving and paying for these tickets is February 4.

Send your money for either event, or both, to Ruth Dimmler, BNL Hospitality, P.O. Box 322, Upton, N.Y.



Charlie Brown and the gang will all be here with their songs and snappy patter for performances at Stage Two (Exhibit Hall) on February 13, 14, 15 and February 20, 21. For all the ones who don't stay up late, there will be a matinee at 2:30 p.m. on Saturday, February 21.

The BERA Theater Group's choice for the February production is pretty much out of character. Selections in the past have been sophisticated adult shows but this one is fun for all.

It's a combination of the popular characters in the comic strip "Peanuts" by Charles Schulz and a witty and lively book with music and lyrics by Clark Gosner. It is entertainment for the entire family and BNL employees are urged to bring their children. Ticket prices have been set as low as possible to encourage family attendance.

Save a night for "You're a Good Man, Charlie Brown" during the last two weekends in February to watch Charlie, Lucy, Snoopy, Linus, Patty, Schroeder and the Little Red Headed Girl provide an evening of fun for all.

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.

18. TECHNICIANS (2) - AAS degrees or equivalent in chemistry or mechanical technology. Assignments involve sample preparation and testing procedures for the evaluation of solidified radioactive waste forms. Department of Applied Science.

19. OFFICE SERVICES ASSISTANT - Temporary position. Director's Office.

20. COMPUTER SCIENCE ANALYST - Oceanographic research program. Department of Applied Science.

21. SECRETARY - Department of Applied Science.

22. SECRETARY - Temporary position. Physics Dept.

23. CUSTODIANS - Plant Engineering Division.

24. ASSISTANT SIGN PAINTER - Plant Engineering Division. Application deadline: February 6, 1976.

Autos & Auto Supplies

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

61 VALIANT - Standard, must ask \$500 to recover investment, clutch, fuel pump, brakes, tires, etc, bills available. 277-2072.

14" WHEELS - Chevy, Pontiac, Tempest, \$5/pr; 2 BBL carb Rambler, 6 cyl. \$5. Bob, Ext. 4652, 289-0357. CHROME - Set of side exterior pipes, 6' long, like new, fits all cars & trucks. \$50. Steve, Ext. 4308.

FORD 390 - W/C-6 auto trans, \$125; 66 Chevelle, 4 dr, 6 cyl, auto, \$125. 744-2083.

67 VW - Runs, needs work, good for parts. \$150; also extra glass, starter. 744-2083.

67 VW - Runs, rear & side windows for 67 bug, best offer over \$125 or trade for equiv in auto tools. 744-2083.

73 PINTO - Station wagon, standard 4 on floor, 26 mpg. Jim McKernon, Ext. 4810.

73 HONDA 350 - Road, elec start, excel. \$750. Al, 653-4632.

67 PONTIAC TEMPEST SW - 6 cyl, lo mi, new muffler, good tires, good cond. \$475. 286-8119.

2 SNOW TIRES - Volvo, Dunlop w/w, like new, 6.85-15. \$15 each. Mickey, 473-7460.

74½ DATSUN 260 Z - Immaculate, 18,000 mi, gold, standard, extra snows, hitch. \$4800. 928-2008.

SNOW TIRES - Firestone town & country, w/rims, E78-14, fits all 71-73 Fords. \$20 each. D. Faber, 472-0286.

72 FORD VAN - 8 cyl, standard trans, 300 series, new tires. \$2150. Dominick, 864-3223.

73 PONTIAC - Lemans sport coupe, ac/ps/pb, am/fm, tinted glass, bucket seats w/console, new tires. \$2650. Henry, 281-8538.

4 RIMS - 73 Pontiac Rally II, 15", fits Grand Prix or Chevy. Donald Palmore, 727-5158.

TIRES - 685-15" (3); 654-13" (3), reasonable. 475-0144 after 6.

71 MOTOR - 250 Ford engine, 4000 mi, 6 cyl, 3 spd, stick, asking \$250. 281-5205.

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

Boats & Marine Supplies

20' CRESTLINER - Fiberglass, cuddy cabin, marine head, full cover, 100 hp Johnson, power tilt, elec start, asking \$1500. 727-5168 after 6.

Miscellaneous

DINING RM SET - Ethan Allen, like new, 48" round table, 3 leaves, 1 arm chair, 3 side chairs, upholstered, 48" hutch. Asking \$495. 744-2493.

CHANDELIER - Wagon wheel, 5-light, copper & wood. \$60. 744-2493.

BRAIDED RUG - Red, 10'x14'. \$35. 744-2493.

ANTIQUA MORRIS CHAIR - Stripped. \$100. 744-2493.

ANTIQUA CAST IRON STOVE - \$25. 744-2493.

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

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

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

REFRIGERATOR - Frigidaire, about 12 cu ft, perfect cond. \$50. J. Leong, Ext. 3225/4815.

SECTIONAL SOFA - 3 piece, comfortable, sturdy, but worn. \$40. 698-6760.

SKIS - Poles, boots, size 7, \$20 or best offer; hockey skates, size 8, \$4; figure skates, size 9, \$11. Vetter, Ext. 2043.

FM TUNER - Mono, \$10. Ext. 3501, 924-3303.

BABY HIGH CHAIR - Table, \$8. Ext. 3501, 924-3303.

Classified Advertisements

Miscellaneous

CRIB & MATTRESS - Full size, natural wood, good cond. \$25. 698-6760.

24" GAS RANGE - Oven & broiler, excel cond, \$45. Dick, Ext. 3860, 698-5298.

MEN'S SKI BOOTS - Master-Austrian made, size 8, excel cond but hook-lace type, make an offer, Ext. 3380, 286-1454 after 6.

CHAIN SAW - 16" Remington, 2 cycle, gas w/2 extra chains & accessories. \$65. Ext. 3284, 286-1062.

ICE SKATES - Women's size 6, like new. Ext. 4309.

FREE DOG - Samoyed, 1 yr old male, give only to suitable home, no papers. Metz, Ext. 2410, 924-7625 after 5:30.

BAY GELDING - 9 yrs old, rides English & western, good jumper, western tack. \$400. Metz, Ext. 2410, 924-7625 after 5:30.

2 CHILDREN'S DESKS - \$10 each. Ext. 4122, 286-8512.

SHOTGUN - Remington model 11-48, auto loading, very good cond. \$100. Len, Ext. 4675, 584-7258.

STEREO - APF, 8 track, am/fm radio, 2 shelf speakers, 1 yr old, excel cond. \$50. Chas Frank, 751-1660.

POWER SWEEPER - Good cond, vacuum hose, like new, cost \$100. Both for \$15. S. Earle, Ext. 3320.

TYPEWRITER - Singer portable, just cleaned, new ribbon, serviced ready to go. \$30. Fred, 475-4935.

WASHING MACHINE - Speed queen, auto w/drip dry cycle, will deliver to your door, new parts, excel cond. \$50. Ext. 4597, 475-4935.

ICE SKATES - Men's figure, size 7, never used. \$10. Walt, Ext. 4597.

AQUARIUM - 10 gallon, all glass frameless w/power filter, non-corrosive fluorescent light, gravel, imitation plants, all in excel cond. \$20. 727-3608.

FIGURE SKATES - Girl's size 1, \$4; boy's size 2, \$4. Claire, 732-6712.

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

OSCILLOSCOPE - EICO 460, Heathkit EF-2 test chassis & all manuals, all new in cartons. \$135. D. Vail, Ext. 2046.

GE REFRIGERATOR - Like new, 13 1/2 cu ft, self-defrosting, 2 dr, harvest gold. \$150. Alan, Ext. 2072.

SHOWER STALL - Aluminum, 32x32 w/door. \$25. 289-1089 after 5.

MINK COAT - Natural, full length, size 12-14, very good cond. 472-0509.

ANTIQUA CHAIRS - Cut glass, tables, pressed glass & bric-a-brac. 472-0509.

HOCKEY SKATES - Boy's black size 4, like new. \$8. Ext. 4051, 286-3377.

MOWER - 38" Mott Hammerknife, pull behind rider, 8 hp, Briggs & Stratton engine, \$80, sharpening tool incl. \$325. 286-3377 after 6.

CB RADIO - Johnson Messenger 2, base station, can be used mobile, 12V, 12 channel, crystals for 4 channels incl. \$100. 286-3377 after 6.

HOCKEY SKATES - Boy's size 1, good cond. \$4. Watson, 286-3679.

KITCHEN STOVE - Combination 1/2 gas & 1/2 kerosene space heater. \$25. G. Irving, Ext. 2318.

SKI BOOTS - Child's size 2, rubber, buckle type. \$9. G. Irving, Ext. 2318.

FIGURE SKATES - Black, size 3, new, used once. \$10. Georgia Irving, Ext. 2318.

TENNIS RACKET - Davis, hi-point 1L, 4 1/8, used one season, "new" grip. \$20. G. Irving, Ext. 2318.

CAMERA - Cannon, complete set up, 35 mm, extra lenses, filters, flash, other extras, value \$500+, sell \$250. Hill, Ext. 3154.

AUTO TURNTABLE - Dual 701, direct drive, 1 month old, used few times. \$220. Ext. 3828, 751-7250.

GIRL'S RIDING BREECHES - Esquistretch, fits regular size 14, beige, \$14; old leather boots, size 6, \$7. Ext. 3841, 286-9450.

ELEC GUITAR - 1958 Gretsch country gentleman, original humbucking pickups. \$300 firm. 669-5838 after 6.

CB LAFAYETTE - #625, new in box, \$150; Columbian depth finder, 2 stage. \$75. John, Ext. 3354.

BATHRM SINK - W/faucets. \$10. Ext. 4249.

HARRIS TWEED JACKET - 38" short, hardly worn. Asking \$25. Peter, Ext. 4094.

35mm SLR CAMERA - Exa IIA w/case, F 2.8 lens, like new. \$30. 589-4363 after 6.

SNARE DRUM - Premier & stand, excel cond. \$50. R. Spellman, 744-1944.

ACCORDIAN - W/case. \$65. Les, Ext. 4074.

SKI BOOTS - Lace type, sz 3, like new, \$5; ice skates, men's size 7, used once. \$5. 928-0297.

NIGHT TABLE - Mahogany, \$15; high chair, \$8. Ann, 286-2280.

BENCH LATHE - Southbend 9" w/extra equipment incl inch & metric change gears, milling, 3 jaw chuck, collets, turret for cross slide. Fred, 698-0373.

ALL WEATHER COAT - Misty Harbor, size 10 women's worn once, cost \$75. Linda, 698-9121.

TAPE RECORDER - Wollensak, \$10. Ed, 979-0650.

CANDLESTICKS - Pair of milk glass, brass & marble, \$10; 71 Royal Copenhagen Xmas plate in orig box, \$40. Irene Merritt, 589-5126.

SPRING COAT - Size 12, poppy color, good cond. \$12. Ext. 3609.

SHIRTS - Men's medium, maroon & blue, \$4 each or 2 for \$7; blue blazer, size 12, \$5. Ext. 3609.

SPRING COAT - Green checked, size 14, \$12, good cond. 744-5871.

ADDING MACHINE - Olympia, 9 key, like new. 265-8685.

PHONO CARTRIDGE - Shure V15 type II, Stanton 681 EE, slightly used, \$10 each. Ext. 3828, 751-7250.

DESK - Knee hole type, early American style, \$60. 589-3269 after 6.

OLD ENGLISH SHEEP DOG - Puppies, AKC registered, champion background, reasonable. 734-6612 after 7.

BOY'S ICE SKATES - Size 6, \$6; in good cond. Ext. 4278, 878-1731.

HOTPOINT - Refrigerator/freezer, 2 dr, 15 cu ft, harvest gold, self defrost, A-1 cond, must see to appreciate. \$195. 281-5205.

96" SOFA - Black ripple upholstery, good cond. \$100. 928-3951 after 6.

MICROWAVE OVEN - Tappan, 2 months old, w/browning tray, \$275; modern corner elec fireplace w/field stone type base, \$50. Whitey, Ext. 2913.

SIBERIAN HUSKY PUP - Female AKC registered, champion lineage, blue eyes, beautiful markings, show potential, paper trained, health guaranteed. Ext. 3481.

APT SIZE REFRIG - New cond, \$45; bed safety rails, \$4; (2) 20" girl's bicycles, new cond, \$25 each; roller skates, size 2, \$4; ice skates, size 1, 2 pair, \$3. Ext. 3084.

PHYSICAL REVIEW LETTERS - Free, from early 60's to 1974. Ext. 3841.

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

S. SETAUKET - 3 bedrm ranch, finished basement, above ground pool w/deck, appl, carpeting, 1/4 acre, 3 Village schools, 20 min to Lab, must see. 751-6261.

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

SOUTHAVEN - Contemp ranch, 5 min to Lab, large living rm w/fireplace, den, 3 bedrms, 2 1/2 baths, eat-in-kitchen, garden house, 1 acre, adj to park. \$42,000. 281-4080 after 5.

TOWNHOUSE - 3 bedrm, 1 1/2 baths, w/w carpet, central air, 15 min to Lab, maintenance free, must see. \$27,000. Ext. 2978, 369-2526.

NORTH SHORE - 3 bedrm, 1 1/2 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.

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

RIDGE - 3 bedrm ranch on wooded 3/4 + acre plot, basement, blk top, appl. \$33,500. 924-4962.

HI RANCH - Port Jeff area, 12 yrs old, 4 bedrm, dining rm, den, eat-in-kitchen, 1 1/2 baths, all appl, ac, patio, pool, 2-car garage, Comsewogue schools, beautiful landscaping. \$37,500. 473-7833.

BELLPORT - 5 bedrm, 2 1/2 baths, living rm, dining, family, Franklin stove, screened porch, unfurn, 1 1/2 acres. S. Country Rd, \$350/month or \$55,000. Ext. 2057, 286-1091.

For Rent

2 BEDRM DUPLEX - Apt, w/basement, 5 min to Lab, \$280/month incl heat & hot water. 581-2909.

MORICHES - 5 1/2 rm apt in new house, very nice area, elec incl. \$300/month. 878-2357.

WADING RIVER - Beautiful 9 rm colonial, 8 mi to Lab, 1/2 acre, furnished, 5 bedrms, one closed off, on cul-de-sac, near LI Sound, beach, up to 2 children. Rick, Ext. 3979, 929-6820.

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

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.

CALVERTON/RIVERHEAD - Townhouse, 3 bedrms, 1 1/2 baths, ac, all appl. \$289/mo + util. 488-2497, Ext. 2445.

Wanted

GUITAR LESSONS - Will exchange horseback lessons. Ext. 3841, 286-9450.

SOFA OR SOFA BED - In good cond. Ext. 3501, 924-3303.

BABYSITTER - Exp in infant care, 1-2 days/week in my home, Shoreham. 744-4965.

2 USEABLE TIRES - A78-13, for 71 Pinto. Jim Lynch, Ext. 4510.

HIGH RISER BED - Working cond, will pay reasonable price. 878-2486.

CYCLERS - Meeting Feb 2, rm A, Berkner, 12:30, organize coming season's events.

PHONO RECORDS - Will buy 50's, 60's, r&b r'n'r, 45's, 78's, albums. Ext. 2046.

2 CAR GARAGE To store antique cars in Brookhaven township. Joan, Ext. 4393, 399-2084 after 6.

SOFA BED OR - Fold away cot, for small apt, reasonable price, good cond. Ext. 2238.

BEETHOVEN SWEATSHIRT - Size large to borrow for theatre group. Ext. 3940.

FRONT TORSION BAR - For 64 VW sedan, Ext. 4463, 929-4923 after 6.

FEMALE ROOM MATE - Share 2 bedrm apt in Com-mack. 543-6874 after 7.

CABLE SKI BINDINGS - Jerry, Ext. 3334.

EMPTY BOXES - Attractive writing paper boxes for boxing scarves. Sharon, Ext. 3331.

ICE SKATES - Figure, women's size 7, child's size 2. Carmen, Ext. 4135.

10" TABLE SAW - Good cond. Dick, Ext. 2881, 286-3372.

2 BEDRM HOUSE - Unfurnished, Bellport or Brookhaven area, basement & garage desirable. Ellen, Ext. 3725 after 4.

PERSON WANTING EMPTY PACKS - Cigarette, can pick up full bag at Lab, Bldg. 535, Ext. 4261.

HOME - For lovable dog. 589-3269 after 6.

ROOM HELPI - I need a room between \$70-\$100/month + privileges, in Coram, Port Jeff, Selden, Centereach area, desperate. DeeDee, Ext. 4779.

15" WHEELS - For VW snow tires. S. Earle, Ext. 3320.

DEHUMIDIFIER - Look & capacity not important, good working order a must. S. Earle, Ext. 3320.

Car Pools

MANHATTAN - Interested in forming or joining a car pool between BNL & Manhattan. J. Durnan, Ext. 2485.

RIVERHEAD - BNL - SUFFOLK - One to four days. Bob, Ext. 4411.

RIDE WANTED - Blue Point/Bayport to Stony Brook university. Tues & Thurs. 9-5. Jacob, Ext. 4340, 363-6787.

STRATHMORE E. CORAM - Would like to join car pool to Lab. Ming-shih Lu. Ext. 2455.

RIVERHEAD - Wanted 5th person to complete car pool from Riverhead area. Jean, Ext. 2902 or Pat, Ext. 4519.

Services

IMPROVE YOUR ENGLISH - Conversational skills over coffee in an informal home atmosphere. \$5/hr. 751-4958/751-7103.

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

CHILD CARE - At my home, near Miller Place/Sound Beach area. 744-4615.

TIRES - Recaps & used. most sizes, extra rims, used alternator & starter. Ken, 289-8212 eves.

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

DOG SITTER - My home, refs avail, 286-8512.

INTERIOR PAINTING - 751-6431.

AUTO REPAIRS - Crocheting. Rachel, 878-2486, Ray, 878-2486.

AUTO BODY REFINISHING - Free estimates. 727-9669.

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

TREE SERVICE - Removal, chain saw work, odd jobs done. 727-1329.

HAVE TRUCK - Yards, cellars, garages cleaned, lawn leaves vacuumed. 727-1329.

RESTRUNG RACKETS - & regripped, head grommet strips available. Barry, 289-0791, Allan, Ext. 3049.

ICE SKATES SHARPENED - Ted, 589-2470.

DOG TRAINING CLASSES - Phil Warner, 727-1218 days.

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

TAXES - Prepared by professional tax consultant, your home or mine. John, 732-2472.

Classified Ad Policy

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

- The Brookhaven Bulletin'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.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employee's signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies	<input type="checkbox"/> Wanted	Check <input checked="" type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
<input type="checkbox"/> For Sale: Boats & Marine Supplies	<input type="checkbox"/> Carpools	
<input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Lost & Found <input type="checkbox"/> Services	

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).