



# BROOKHAVEN BULLETIN

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## New Silicon Isotope Discovered At BNL

The discovery of silicon-33, a new radioactive isotope of silicon, was announced last week at a meeting of the American Physical Society by scientists from Brookhaven National Laboratory. The discovery was made during an experiment designed to learn more about oxygen. While bombarding a target of oxygen-18 with a beam of oxygen-18 ions in the Tandem Van de Graaff accelerator facility, it was noticed that some unexplained gamma radiations were being emitted from the target.

A bit of scientific detective work by David Alburger and David Goosman of the Physics Department proved that the new radioactivity was due to the previously unknown isotope silicon-33, which has a half-life of only 6.3 seconds. Silicon-33 is produced when two oxygen-18 particles (a total of 36 neutrons and protons) collide, merge, and then give off two protons and a neutron, leaving an atom of silicon having a mass number 33 (total of protons plus neutrons in the nucleus). The atom has an excess of energy and one way it gets rid of this energy is to emit gamma radiation, which signaled the presence of silicon-33.

The discovery of silicon-33 brings the total of known radioactive isotopes of silicon to six. The previously known silicon radioisotopes have masses of 25, 26, 27, 31 and 32. The stable, or non-radioactive forms of silicon have masses of 28, 29, and 30.

It is too early to predict any practical applications for silicon-33, and according to Goosman and Alburger, not all of its characteristics have been measured yet. They pointed out, however, that a sister isotope, silicon-32, is found naturally in sea water and because of its approximately 700-year half-life is used to trace currents in the ocean.

In 1970, when the Tandem achieved its designed operational energy level the first time it was turned on, BNL Director Dr. Maurice Goldhaber made a prediction that is now coming true, that the facility was "... not only the newest and largest of its kind in the world, but the most versatile and one that brings a new dimension to the study of the micro-world of the atom. Since the energy gain is so large in this facility, some of the heavy ions can be accelerated to energies sufficient to cause them to fuse with other types of heavy ions, thereby producing new and previously unknown radioactive nuclei."

The Tandem Van de Graaff facility at Brookhaven is unique. It consists of two Emperor Tandem models installed end-to-end, so that they can be operated independently as two single accelerators or together as a single accelerator. Any particle that can carry a charge can be accelerated.

Each machine is nominally rated at 20 MeV (million electron volts), but with tandem operation and a process of stripping electrons from the atoms being accelerated, it is possible to achieve energies of several hundred MeV with heavier elements.

The first paper describing the discovery of silicon-33 was given on Wednesday, December 29, as part of a meeting of the American Physical Society held at Kresge Auditorium of MIT, Cambridge, Mass., from December 27th thru the 29th.

## Signed Up For Five Years



Deputy Director George Vineyard and AUI President Gerald Tape watch as Wesley Johnson, Manager of the New York AEC Office signs a five year contract for the operation of Brookhaven National Laboratory.



Present at the ceremony for the signing of the AUI-AEC contract were: (seated) AUI President Gerald Tape; AEC Officer, Wesley Johnson; BNL Deputy Director, George Vineyard. (standing) L.R. Burchill, AUI Comptroller; N.P. Rathvon, AUI Secretary; BNL Associate Director Vincent O'Leary; Marvin Laster, AEC Counsel; Dave Schweller, Brookhaven AEC Acting Manager; and Sydney Saxon, Chief, Administrative Branch, Brookhaven AEC.

## Organizational Changes

On December 31, Dr. Frederick P. Cowan, Acting Chairman of the Instrumentation and Health Physics Department, retired after 24 years of service. The Laboratory owes a large debt to Dr. Cowan for the exemplary way in which he ran the Laboratory's Health Physics program, the effectiveness of which is attested by Brookhaven's excellent record with respect to radiation protection. Dr. Cowan enjoys a national and international reputation as a result of his many scientific and advisory activities which we feel confident will continue.

As of January 1, 1972 the following organizational changes will be in effect:

Dr. J.B.H. Kuper will become Assistant to the Director.

Health Physics and Safety will be an independent Division, headed by Mr. Charles Meinhold.

The Meteorology Group under the continuing leadership of Mr. Maynard E. Smith, will become a part of the Department of Applied Science.

The Division of Instrumentation will be headed by Mr. Robert L. Chase.

In the Director's Office, Dr. V.P. Bond will have responsibility for the Division of Health Physics and Safety, and Dr. R.R. Rau will have responsibility for the Division of Instrumentation.

## FAS to Meet

The Brookhaven Chapter of the Federation of American Scientists will meet in Room "C" of the Cafeteria at lunchtime on Friday, January 14, 1972. Included on the agenda will be Chapter participation in the national FAS TACTIC (Technical Advisory Committee to Influence Congress) Committee, and the development of a proposal for FAS position on energy and environmental problems.

## AUI-AEC Contract Signed Last Week

On Thursday, December 30, as the Lab was preparing to close early for the coming New Years holiday, a group gathered in the office of Director Maurice Goldhaber to witness the signing of a contract for the next five years of operation of Brookhaven National Laboratory.

The contract, between Associated Universities, Inc. and the Atomic Energy Commission, called for the extension of the operation of Brookhaven for the AEC from July 1, 1972 to June 30, 1977.

Associated Universities, Inc. has had the contract for the operation of BNL since 1947, when the Lab was founded. AUI also operates the National Radio Astronomy Observatory for the National Science Foundation.

Coming to Brookhaven for the occasion, and representing the AEC as the signing contracting officer, was Wesley Johnson, who was Manager of the New York AEC office until midnight, December 31, and now is Deputy Manager of the newly consolidated Chicago Office. As of January 1, 1972, the AEC Brookhaven Area Office and BNL report to the Chicago Office of the AEC.

Signing on behalf of Associated Universities, Inc., was Gerald F. Tape, President. Also present at the ceremonies were: from the Brookhaven Area Office; Dave Schweller, Acting Manager and representative of Lyman Bryan, Manager; Sydney Saxon, Chief, Administrative Branch; and Marvin Laster, Counsel; from Associated Universities, Inc.; L.R. Burchill, Comptroller, and N. Peter Rathvon, Secretary; from Brookhaven National Laboratory; George H. Vineyard, Deputy Director; Vincent R. O'Leary, Associate Director; and Norbert J. Dernbach, Public Relations Officer.

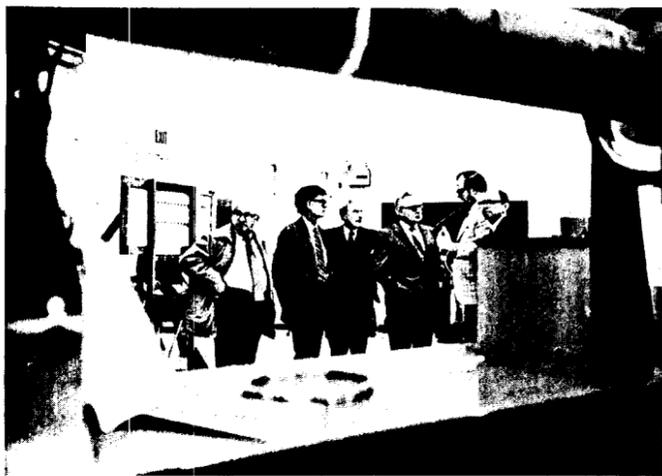
BNL currently employs 2600 people, of whom about 800 are full-time scientists and professional personnel engaged directly in research relating to the physical sciences, biology and medicine, reactor development, the application of high-level and other radiation sources for applications in industry and medicine, and many other related research programs.

The total operating, construction and equipment budget for the current fiscal year ending June 30, 1972, is estimated at \$56 million.

## Power Lecturer



Dr. Philip Sporn, who wrote the introduction to a Lab study on superconducting power transmission lines, talks with Eric Forsythe, (right) before a lecture in the Snyder Seminar Room at the AGS.



Physics research at the Tandem facility is detailed by Harvey Wegner.



Fred Mills explains magnet configurations at the AGS.



Stanton Cohn explains whole-body counting techniques.

### Hanson Visit

On December 21, Representative Orval Hanson (R-Idaho) visited Brookhaven National Laboratory for a tour and briefing. On arrival he attended a conference in the Administration Building, and then toured several of the scientific research areas. With Associate Director R.R. Rau as host, Representative Hanson, Brookhaven AEC Manager Lyman Bryan, and Chemistry Department Chairman Gerhart Friedlander visited the Medical Department and the Tandem Van de Graaff in the morning. The party joined a luncheon honoring Philip Sporn, and then attended a briefing session with members of the Department of Applied Science and the Physics and Accelerator Departments. Mr. Hanson is a member of the Joint Committee on Atomic Energy.



Orval Hanson  
Representative from Idaho



Harold Atkins shows scanning machines and methods.



George Cotzias describes latest research on Parkinsonism.



A briefing on the latest developments in isotope production and superconducting magnet technology.

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### Potter Retires

Chicago Operations Office of the U.S. Atomic Energy Commission has announced the retirement of Harmon S. Potter on January 7, 1972 after completion of over 30 years of service with the Federal Government.



Mr. Potter served over four years during World War II as an officer in the U.S. Army, including two years with the Manhattan District of the Corps of Engineers which managed the Government's program at that time for the development of atomic weapons.

When the functions of the Manhattan District were transferred to the U.S. Atomic Energy Commission on January 1, 1947, Mr. Potter continued in civilian service as a patent attorney for the Commission in Washington, D.C. Since early in 1959 Mr. Potter has been Chief of the AEC's Patent Group located at the Brookhaven National Laboratory, Upton, New York.

Mr. Potter has been responsible for administering the patent policies of the AEC in connection with contracts assigned to the Brookhaven Patent Group, and providing patent services to the former New York Operations and the Brookhaven Area Office. During his period of service at Brookhaven he received an award for sustained superior performance.

### Aviation Club

Members of the BNL Aviation Club activities planning committee and their wives and guests were entertained Saturday evening, December 18, in the home of Mr. and Mrs. Louis Totans. The committee agreed to arrange a tour of the N.Y. Air Traffic Control facilities at Islip on a weekday evening during the month of January.

The Aviation Club will hold a short meeting on Wednesday, January 12, at 5:15 p.m. in the upstairs lounge of the Recreation Hall. The purpose of this meeting is to establish suitable days and times for regular meetings and to set a date for the ATC tour. An invitation to attend is extended to all those interested in touring the ATC facilities.

### Vacation Credit Reminder

The maximum number of vacation days that may be carried over from one calendar year to another is 36. Monthly exempt and nonexempt employees must take any vacation days in excess of 36 by January 25, 1972. Any accrual for January, 1972 will not be affected by the 36-day carry-over.

### Cooking Exchange

Low calorie recipes will be featured at the next Cooking Exchange session to help combat the rich foods of the holiday season. The date is Thursday, January 13, 3 to 5 p.m. in the Recreation Building in the apartment area. There is a charge of 75¢ per session for each person attending to cover the cost of recipes and for the babysitters.

Reminder: Please don't forget to submit your recipes and ideas for the Christmas party appetizers to Clarence Pittenger, building 515.

### Selected Reading

- New Scientist 52, December 2, 1971
- Rothschild v. Dainton: Who's right? H. Melville, A. Winner and Bowden. 14-16
- Science, technology and poetry. R. Graves. 34-5
- New Scientist 52, December 9, 1971
- David as Goliath. E. David talks to M. Sherwood. 92-3
- The physicist who stayed. S. Zienau. 101-3
- New Scientist 52, December 16, 1971
- Unemployment, myths and science. B. Fryer. 165-8
- Rehovot 6, No. 2, 1971
- On understanding man. S.L. Washburn. 22-31

**Year-End Retirees**



Cowan

Curtis

Frederick P. Cowan, Acting Department Chairman of Instrumentation and Health Physics, began work at BNL on May 12, 1947 and retired on December 31. His retirement address will be 22 Livingston Road, Bellport, N.Y. 11713.

Howard J. Curtis, a Senior Scientist in the Biology Department who had been employed at Brookhaven since October 1, 1950, retired on December 31. His retirement address will be Box 86, Fitzgerald Road, Shoreham, N.Y. 11786.



Petersen

Yodice

Axel Petersen, Building & Grounds Utility Man in PEP, started work at BNL on April 2, 1947 and retired on December 31. His retirement address will be 8 Woodland Park Road, Bellport, N.Y. 11713.

Rocco M. Yodice, Master Welder in Central Shops who had been at Brookhaven since May 12, 1958, retired on December 31. His retirement address will be 12 Walsh Lane, Westbury, N.Y. 11590.

**Reports Available**

The following reports are now available to the Laboratory Staff and to affiliates of the AEC, AUI, and BNL. Others may purchase them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22151. Staff members should call Ext. 2256.

BNL 50146 \$3.00  
Irradiator Design Calculational Techniques Based on Centerline Depth Dose Distributions. F.X. Rizzo

BNL 50255 \$3.00  
Preliminary Survey of Polymer-Impregnated Stone. M. Steinberg and P. Colombo

BNL 50280 \$3.00  
The Atmospheric Diagnostics Program at Brookhaven National Laboratory: Third Status Report. Ed. by W.D. Tucker

BNL 50294 \$3.00  
Do Radicals Control Our Lives? Free Radicals in Biology and Medicine. Brookhaven Lecture Number 91. Donald C. Borg

**Scenes From American Life**

Only a few weeks away from opening night, rehearsals for the next production of the BERA Theatre Group are being held three days a week.

Since early in December, a dedicated group of thespians have been studying lines and rehearsing music without any real let-up for the holiday season.

Evenings spent in a dark and chilly theatre are compensated for by a large number of the cast members who have involved their spouses in the production in one form or another. In the play, *Scenes from American Life*, there are six husband and wife teams who are sharing rehearsal chores.

Julie Peierls, a cast member, is accompanied by her husband, Ron, who is directing the offering. Elaine Friedman is in the cast, and husband, Jerry, is on the lighting crew. Both Pat and Graham Campbell are in the cast, and Bill and Darlene Yelon are producer and associate producer.

Dave Miller is on the lighting crew while Anne is in the cast, and Carol Losquadro worries about props while Mike is on stage. Togetherness must surely be membership in the Theatre Group.

*Scenes from American Life*, is a biting commentary on the American scene as we all hope it will not be. Past and present views are satirical, and the view of the future is a bit chilling.

This unique presentation will be presented in Berkner Hall on Thursday and Friday, January 21 and 22, and again on January 28 and 29.

**An Evening of Sixteenth Century Music**



Raymond Lynch, lutist, and Robert White, tenor, will entertain a Brookhaven concert audience with an evening of sixteenth century music at Berkner Hall next Wednesday, January 12.

The next concert, to be presented Wednesday, January 12 at 8:30 p.m. in Berkner Hall, will feature the tenor Robert White, accompanied by Raymond Lynch on the lute.

Robert White has been heard in opera and oratorio with many leading musical organizations here, including the New York Philharmonic under Leonard Bernstein and the NBC-TV Opera. In 1969 he won critical acclaim for his singing in the opera "Medea in Corinto" with Clarion Concerts, at Alice Tully Hall, a performance which has been recorded for Vanguard Records.

Raymond Lynch began his musical studies on the guitar and then developed a formidable technical command of the lute. He has performed the solo lute part in the western hemisphere's premiere of Bach's St. Mark's Passion.

The Brookhaven program will include selections from the French, Spanish and English Renaissance and early Baroque repertoire, including some solo lute pieces.

Admission is \$4.00 for adults, and \$2.00 for those under 18. Series tickets at \$9.25 for the 3 remaining concerts, are still a bargain.



"... and don't you dare tell Daddy!"



"Please God, make me a better guy and keep me from picking on Fat Pig Hathaway at breakfast."



"... I gave you your first haircut."



"I've always had this ... music ... in me and now I've just got to let it out."

## 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.

## Cafeteria Menu

### Week Ending January 13, 1972

<b>Friday, January 7</b>	
Clam & Celery Bisque	
Fried Shrimp w/Tartar Sauce & French Fries	.95
Roast Leg of Lamb w/Mint Jelly & 1 Veg.	.95
Broiled Halibut w/Carlton Butter & 1 Veg.	.95
<b>Monday, January 10</b>	
Tomato Soup	
Roast Fresh Ham & 1 Veg.	.90
Chicken Patties w/Giblet Gravy, Currant Jelly & 1 Veg.	.90
Western Omelet w/French Fries	.80
<b>Tuesday, January 11</b>	
Vegetable Soup	
Grilled Ham, Sausage & Pineapple & 1 Veg.	.90
Creamed Chicken & Mushrooms on Noodles	.90
Braised Short Ribs of Beef w/Gravy & 1 Veg.	.95
<b>Wednesday, January 12</b>	
Minestrone Soup	
Baked Beef Loaf w/1 Veg.	.85
Shrimp Chow Mein on Boiled Rice w/Crisp Noodles	.90
Polish Kielbasy w/Mashed Potato & Sauerkraut	.80
<b>Thursday, January 13</b>	
Beef Barley Broth	
Beef Hash w/Brown Gravy & 1 Veg.	.80
Baked Lasagna w/Meat Sauce & 1 Veg.	.90
Broiled Chicken Livers w/Bacon Strips & 1 Veg.	.85

## NSF — NATO Grants

The National Science Foundation announces that it plans to award international travel grants to about 80 young U.S. scientists to attend some 40 NATO Advanced Study Institutes in Europe during the summer of 1972.

The Institutes provide highly advanced instruction on specific topics in the physical, life, and social sciences, and in engineering and mathematics. The institutes normally last from two to three weeks and are conducted in an atmosphere that will promote international scientific fellowship and cooperation. Junior faculty and advanced graduate and postdoctoral students who are citizens of the United States are eligible to apply.

Since NSF travel grants are made only upon nomination by a NATO Institute Director, interest in the grants should be expressed to the appropriate Director, not to NSF.

General information about these grants, and a list of NATO Institutes which will be available for distribution in March 1972, may be requested from:

Advanced Science Education Program  
Graduate Education in Science  
National Science Foundation  
Washington, D.C. 20550

## Classified Advertisements

### Autos & Auto Supplies

- 62 TR-4 - Wire wheels, r/h, good top & tires, tonneau cover, new batt, excel running cond. 653-4633.
- 60 FORD THUNDERBIRD - Excel running cond. \$125. D.H. Gurinsky, Ext. 349, 878-1013.
- 64 VALIANT - Good cond, must sell, getting married. \$275. Ext. 7805.
- 63 VW - Needs work, eng good. Ext. 7685, 475-6288.
- 67 PONTIAC CATALINA CONV - Ps/pb, many extras, best offer. 924-3362.
- 59 CHEVY PARTS - Walt, 281-5328.
- 49 FORD COUPE - Doesn't run, has good rubber, brakes, body, best offer. D. Feigenbaum, Ext. 7677, 289-3622.
- 62 VW - Good running cond. \$200. A. Camargo, Ext. 2324.
- 63 FORD WAGON COUNTRY SQUIRE - V8, 9 psgr, auto trans, ps/pb, oil leak but runs OK. \$150. Ext. 7617.
- 64 OLDS VISTA CRUISER - 30,000 mi on eng & trans, very good cond. \$650. 289-8236 after 6.
- 7.10x15 SNOW TIRES - 5 ea mtd on jeep rims, good cond. \$35. Ron, 289-1003.
- 70 PLYMOUTH STATION WAGON - V8, 383 eng, good cond, 32,000 mi, auto, ps/pb, h.d. susp, posi, tinted glass, air, radio, luggage rack, auto rear window. Ext. 2930, 929-6459.
- MAVERICK TRAILER HITCH - 1 7/8" ball, like new. \$10. S. Anderson, Ext. 7500.
- 62 CHEVY CONV - Blk/blk int, good top, ps/pb, V8, auto trans. \$225. D. Feigenbaum, Ext. 7677, 289-3622.
- 65 CHEVELLE MALIBU - 2 dr hdtp, 6 cyl, auto trans. \$625. 981-1981.
- 68 PLYMOUTH SPORT SATELLITE - 318 eng, 2 bbl, 3 spd auto trans w/console, wide ovals & mags, Panasonic built in tape deck, excel cond. \$1600. Gene, Ext. 7356.
- 6.40x14 PIRELLI TIRE - Never used. \$8. 878-0071 after 6.
- 66 FORD 1 TON PICKUP TRUCK - Model 350, big tires, 4 spd, good cond. \$1100. Paul, 744-9785.
- 68 BRONCO WAGON - 4 w/d, 25K mi, skid plates, limited slip axles, spare gas tank, h.d. clutch & alt, very good cond. Paul, 298-4985.
- 66 VW BUG - Red, needs a home, r/h, excel running cond, best offer over \$500. Iris, Ext. 7805.

71 MG MIDGET - 8000 mi, perf. \$2000. M. Sautter, Ext. 7112, 924-3338.

### Boats & Marine Supplies

- ICE BOAT - "Frostfish", dacron sail, can be carried on roof rack, fast, good cond. \$80. 878-2067 after 6.
- 15' CUSTOM CRAFT - Fiberglass runabout, w/75 hp Johnson & trailer. \$350. 728-2553.
- 19' BALTIC SKIFF - 1951 w/50 hp Johnson w/controls. \$150. 728-2553.

### Miscellaneous

- TAPE RECORDER - Lafayette RK-825 reel to reel stereo with 2 mikes. 1 yr old. \$70. Ray, Ext. 476.
- FIREWOOD - LI hardwoods, seasoned, guaranteed to burn, delivered. Bob, 732-9517.
- SKIS - 7' alum Tyrolia Skimeister bindings. 475-9428.
- QUEEN-SIZE BED - Contemporary divan-style, foam matt, boxspring upholstered to match burnt orange aztec patterned bedspread & bolster, almost new. \$100. Wheeler, 473-7222.
- SOFA & CHAIR - In green & gold damask, like new, Ital Prov. Roebuck, Ext. 7125/7180.
- CHILD'S 16" TRICYCLE - Very good cond. \$5. Ext. 2852.
- COAT - Ladies size 10, grey-beige wool w/white fox collar & cuffs, double breasted. Cost \$140, asking \$75. C. Ruege, Ext. 451.
- OAK FIREPLACE LOGS - Custom cut, split, delivered & stacked, well seasoned. Ken, 289-8212 eves.
- WASHER/DRYER COMBO - Bendix, dryer run by gas, needs fanbelt. \$75. Janice, Ext. 2204.
- MEN'S FIGURE SKATES - Size 10, excel cond. \$8. Mike, 473-2879.
- 8 TRACK FM STEREO TAPE DECK - W/speakers, new. Lundgren, Ext. 7525, 585-3794.
- SURFBOARD - 7'1" Design I, Jaygood. \$55. Mike, 473-2879.
- ENCYCLOPEDIA AMERICANA - 30 vol ed 1964. John, Ext. 426, 929-6530.
- PERFECT GIFT - Compl set of "The Great Books of the Western World." Make offer, bookcase incl. Marty, Ext. 7304, 744-5079 after 6.
- 1/2 TON CHAIN HOIST - Best offer. Lundgren, Ext. 7525, 585-3794.
- WESTINGHOUSE "BACONER" - An elec appliance especially made for cooking bacon, used only 3 times. \$10. P. McHugh, Ext. 7163, 586-3579.
- DOOR & FRAME, OUTSIDE - Sliding window 2'x3' w/ frame, screen & storm, thinline radiator, oil burner, copper tubing 1/2-1". Ron, 289-1003.
- B<sup>b</sup> CLARINET - New cond, w/lyre & cork grease & key. R. Sweda, 475-7227.
- OFF WE GO - Into the wilds you ponder, discover flying the instant adventure, single/group. Arnold, Ext. 7667.
- MOVIE PROJECTOR - Argus 7 mm, excel cond. \$15. Ext. 7239, 941-3609.

ENCYCLOPEDIA BRITANNICA - Updated to 1965 w/ bookcase; dramatic 3 1/2' contemporary table lamp; best offers. Judy, 924-8456.

CRIB W/MATT - Good cond, \$35; dresser, \$15; toy chest, \$10; many toys cheap. Judy, 924-8456.

WASHER & DRYER - Westinghouse coppertone pair (heavy duty 16#). \$300. 475-7067.

ASPEN SKI JACKET - Women's sm-med w/hood, belt, 2-way zipper, never worn, selling at half price. Laura, Ext. 2180, 286-1137.

### 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

WADING RIVER - 7 rm ranch, 1 1/2 yrs old, landscaped, 3 bedrms, 2 baths, paneled fam rm w/fireplace, w/w, s/s, 2-car garage, full bsmt, oil h/w heat, central air cond, 2 mi from Sound on 1 acre of woods. \$45,000 firm. Ext. 2930, 929-6549.

BEAUTIFULLY LOCATED - 3 rm cabin on 30 acres of woods, 40 mi east of Utica in Mohawk Valley, 5 hrs from LI. \$10,500. Ext. 7642.

BRKHVN HAMLET - 3 bedrm ranch, 2 baths, paneled liv rm w/fireplace, s/s, 1-car garage, oil h/w baseboard heat, June '72 occupancy. \$28,000 firm. R. Bergoffen, Ext. 7533, 286-8140 after 7.

MEDFORD - 4 bedrm custom colonial on 1 1/4 acre, 32' country kitchen, fireplace, study, fin bsmt, oil heat, sep oil hot water, just blocks to K-12 schools, lovely treed area. 289-1614.

### Wanted

TREE REMOVAL - Will do tree removal, chain saw service, painting & grounds maint. Bob, 732-9517.

WILL SHARPEN ICE SKATES - T. Lehecka, LT9-2470.

DUMP TRUCK SERVICE - Rubbish removal, tree cutting. Frank, 744-5214.

PICKUP TRUCK - Stick shift, good cond, 1962 or newer, reasonable. Paul, 744-3807.

TREE REMOVAL & CHAIN SAW WORK - Also light hauling, Ken, 289-8212 eves.

CEMENT MIXER - Martin, Ext. 2350.

PEOPLE - For pickin' & singin', listenin' & learnin', everything from Child ballads to Dylan. Bob & Sandy, Ext. 530.

SILVER COINS - Any type. LT9-5699 after 7.

15:35 HP OUTBOARD MOTOR - Reasonable price, not too old. 878-0071 after 6.

BOAT TRAILER - For 19' wooden boat, reasonable cond, fair price. 878-0071 after 6.

CHEVROLET 283 ENG - In good cond, prefer std trans model. Jack, Ext. 684.

GOOD HOME - For 6 mo old brown female puppy, sm boned, very alert loveable, all shots. Ext. 2797, 281-9577.

JEOPARDY GAME - Or question booklet of numbers 2,3,4, & 5, have 1 & 6 to trade. Ext. 2807.

### Classified Ad Policy

#### Deadline is 12 noon Friday for publication the following 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

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 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

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

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue