



Studying a model of the 21° magnet system are (from left) Basil DeVito, Jack Weisenbloom and John Jackson, members of the magnet study group in the Accelerator Department. The new system is now under construction and will be used in the D line at the AGS. At right is the 8° bend superconducting magnet which has been in operation for five years.

## 5 On 8 Leads To 21

Five years ago on Halloween night, the 8° superconducting bending magnet system was brought into operation. It is an essential component of the primary proton beam line to the North Experimental Area of the AGS where several large facilities, including the 7-ft. bubble chamber, are used to study neutrino physics.

With beam intensities of typically  $8 \times 10^{12}$  protons at 28.5 GeV/c passing through the magnet in a curved trajectory, which at several locations along the magnet passes only 2 cm from the beam pipe, the system is a close approximation to having a superconducting magnet as part of the accelerator itself.

An understanding of the effects of particle radiation heating on superconducting magnets is important for several major applications of superconductivity now underway. The 8° bending magnet has been used with targets in the proton beam to study these effects and to verify computer simulations of such heating.

Design concepts and construction techniques similar to those employed with the 8° magnet are now being applied to the construction of three large superconducting dipole magnets. This magnet system will operate at 6 Tesla to deflect the 28.5 GeV/c proton beam by 21° for the D line in the slow external beam switchyard at the AGS. The magnet coil is designed for

ideal superconducting performance of about 7.5 Tesla.

The experience gained from these efforts is being extended to conceptual designs and prototype tests of large volume detector magnets for ISABELLE.

## Inside Info

At a special session of the American Nuclear Society entitled "Twenty-two Years of Remote Technology - The Beginnings," Louis G. Stang, Medical, was presented a scroll acknowledging his early work in remote technology.

Stang and five other precursors in the field received the honor from ANS President William Kimel at the Society's four-day annual meeting held in Washington, D.C., earlier this week.

Stang's invited paper, "Remote Systems Technology: The Birth of an Industry," was presented at a session chaired by BNL Chemist Julius Godel.

## Notice

Because of the two-day Thanksgiving holiday, the *Bulletin* will not be published next week. If the turkey doesn't do us in, publication will resume on December 1.

## Meetings At The Laboratory Last Week



More than 100 users and potential users of the AGS gathered at the Laboratory last week to discuss the research program to be conducted at this accelerator during the ISABELLE construction years. At a two-day workshop participants heard 25 speakers from other laboratories and universities, including CERN and KEK, Japan, present information on possible uses. Discussions centered on traditional research, as well as on the use of the AGS as a tool to study problems in nuclear and solid state physics and in experiments using polarized proton beams. A report on the workshop will be issued.

—photos on this page by Reben

## BNI Lecture The Two Faces Of O

Oxygen is the most abundant element in nature and, without it, all animals and most plants would die. But oxygen has two faces, one benign and the other malignant. Enzymic defense mechanisms shield us from the toxic effects of oxygen at normal concentrations but these mechanisms can easily be overwhelmed.

Oxygen readily accepts one electron to give the superoxide radical and then another electron to yield hydrogen peroxide. Currently, the chemistry and biochemistry of superoxide is a very active area of biomedical research. It has been the subject of 20 years of study in BNL's Chemistry Department.

Chemist Benon Bielski, will explore the properties and effects of this radical in the 161st Brookhaven Lecture. He will present "The Janus-Faced Superoxide Radical" on Wednesday, November 29, at 8 p.m. in Berkner Hall.

The consensus is that the superoxide radical is a more dangerous species than hydrogen peroxide since it can be a precursor of singlet molecular oxygen ( $^1O_2$ ) and possibly also of the very dangerous hydroxyl radical (OH). While enzymes like the superoxide dismutases, catalases and peroxidases protect us against superoxide radicals and hydrogen peroxide. Bielski says no defense system has yet been discovered that protects us against the active oxygen species derived from superoxide radicals.

Research has shown that this oxygen radical is not only a product of pollutants like ozone, or high-energy ionizing radiation, but also a natural intermediate in various biochemical reactions. In biological systems, the superoxide radical and its "active oxygen" derivatives have both beneficial and deleterious effects. It plays a beneficial role in the hydroxylation of metabolic intermediates and drugs, in the enhancement of the radiation effect during radiation therapy, and white blood corpuscles destroy invading bacteria by bombarding them with these active oxygen species.

On the other hand, among the recognized harmful effects are arthritis, carcinogenesis and aging. Bielski says it may be of interest to "pot smokers" to note that the toxicity of paraquat, the herbicide used for spraying Mexican marijuana, has been traced to the spontaneous generation of superoxide radicals when the reduced compound is oxidized by molecular oxygen. The consequence is peroxidation of lipid



Benon Bielski

cellular membranes and the loss of cellular integrity.

Benon Bielski, who specializes in the chemistry of oxygen and oxygen radicals, has been on the scientific staff of the Chemistry Department since 1958. Born in Poland, he came to the United States as a young man and completed his undergraduate work at Harvard University. He received his Ph.D. degree from Columbia University in 1957. He spent the following year as an assistant professor at Florida State University. Bielski is currently a Visiting Professor of Biochemistry in the College of Medicine and in the Graduate Schools of the Downstate Medical Center, Brooklyn. He is the author of about 40 publications in various journals, two books and two articles.

A buffet supper is served at 6:30 p.m. at the Brookhaven Center before the lecture. It is convenient and many have found it a pleasant way to mingle with people from departments other than their own. Those who wish to stay after work for the buffet should make reservations in advance by calling Ext. 3541 before 5 p.m.

## Bonds To Bank On

"Excellent!" is how Fiscal Officer Barney McAlary describes response to the 1978 drive to "Buy a U.S. Savings Bond." McAlary reports that there are 480 subscribers to the payroll savings plan, or an increase of 41% over last year. In addition, the dollar value of bonds purchased annually by employees has increased by 50% over last year; that is, in 1977, 340 employees purchased bonds valued at \$24,000 while this year, the annual value of bonds purchased has increased to \$30,600.

Employees who wish to sign up for the payroll deduction plan of purchasing bonds may still do so, McAlary notes, by calling Payroll at Ext. 2470. They will forward the proper forms.



A symposium to assess the industrial hygiene monitoring needs for the coal conversion and oil shale industries, co-sponsored by DOE and BNL, was held at the Laboratory on November 6 and 7. The meeting provided about 60 representatives of industry, research laboratories and universities with an overview of potential monitoring problems in these new industries, and information as to the current state of dosimetry technology. On November 8, six members of the working group, which is chaired by BNL's Otto White and Samuel Morris, met to start drafting a final report for DOE. Some of the speakers were (from left) Otto White, BNL; Martha Radike, Univ. of Cincinnati; Newell Bolton, Union Carbide; William Barkley, Univ. of Cincinnati; and Russell Ruch, Illinois State Geological Survey.

11-628-78

## Japan On \$18 A Day

Today, six BNL scientists are en route to Tokyo as part of a U.S. delegation which will participate in a joint U.S./Japan seminar on the safety of High Temperature Gas Cooled Reactors (HTGRs). The American visitors are looking forward to their 11-day visit to Japan where they will join participants from the U.S. Nuclear Regulatory Commission, Los Alamos Scientific Laboratory and Oak Ridge National Laboratory. The visitors will travel throughout Japan to laboratories and companies engaged in HTGR technology.

The group views with alarm, however, the declining value of the dollar as compared to the yen. Laboratory policy allows \$18 per day for food which won't go far in Japan when one considers that a cup of coffee costs \$2.10 and one pound of steak is \$27.

It is little wonder, then, that several members of the group have resorted to secret contingency plans to alleviate the cost of eating. Inside informants have leaked that Schweitzer plans to smuggle in a giant salami, Boccio an 10-pound wedge of provolone and Soo a sack of rice.



Members of the Reactor Safety delegation en route to Japan are (seated from left) Don Schweitzer, head HTGR Division; Walt Kato, Assoc. Chairman for Reactor Safety. (Standing from left) Peter Soo, HTGR; Paul Bezler, Structures Analysis Group; Cesar Sastre, HTGR; and John Boccio, HTGR. —photo by Rosen

## Photo Contest Opens

An exhibition of black and white photographs sponsored by the BNL Camera Club will be held November 28 - 30 in Berkner Hall, Room B. Prizes will be awarded to those photographs judged best in competition.

All submitted photographs must have been taken within the past year and must have been developed and printed by the entrant. Prints must be on pressboard backing and must measure at least 8"x10" when mounted.

Entry blanks are available at the BERA film service office in Berkner Hall. All entries must be delivered to Room B before 1 p.m., Wednesday, November 22.

Photographers, here's a chance to display your creativity and perhaps win a prize. All Brookhaven employees, retirees and their family members may enter the contest.

## Note To Daconics Users

OCR Hammermill Scan Mate Paper is now available from the stock room. The stock number is S-35560. This particular type of paper is recommended for use in typing manuscripts for optical character recognition (OCR) input to the Daconics Word Processing System.

## I.B.E.W. Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on Monday, November 27, 1978, at 8 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the President's report. Please note date due to Thanksgiving Holiday.

## Retiring 10-734-78



Walter F. Bigelow, a Central Shops Tool and Instrument maker who has been in the Accelerator Department since 1961, will complete 20 years of service to BNL when he retires November 30. An amateur lapidary, Bigelow plans a trip to Hawaii in March and to the Western U.S. where, unlike the "pebbles" to be found on Long Island, there should be much to please a rockhound such as Bigelow. He and his wife live in Lake Ronkonkoma.

—photo by Rosen

## Cafeteria Menu

### Week Ending November 24, 1978

<b>Monday, November 20</b>	
Potato-leek soup	(cup) .30 (bowl) .40
Turkey à la king on toast points	1.25
Western omelette and 1 veg.	1.25
Hot Deli - Pastrami	(on bread) 1.15 (on roll) 1.25
<b>Tuesday, November 21</b>	
Split pea soup	(cup) .30 (bowl) .40
Chinese pepper steak on rice	1.30
Barbequed spare-ribs and black-eyed peas	1.40
Hot Deli - Roast beef	(on bread) 1.25 (on roll) 1.35
<b>Wednesday, November 22</b>	
Cream of cauliflower soup	(cup) .40 (bowl) .50
Breaded flounder filet w/fr.fr.	1.25
Spaghetti w/meat sauce and garlic bread	1.30
Hot Deli - Baked Virginia ham	(on bread) 1.25 (on roll) 1.35

## On Site Diners Note

The Cafeteria will operate only the Snack Bar Service from 9:00 a.m. until 2:00 p.m. daily over the Thanksgiving Holiday weekend, Thursday, November 23 through Sunday, November 26.

The Center will be closed Thursday, Friday and Saturday. It will reopen Sunday, November 26 at 5:00 p.m.

## Introduction To Opera

Parents are advised that the Metropolitan Opera Guild offers a one-session program, an "Overture to Opera," designed for students in grades four through twelve.

If sufficient interest is exhibited, BERA will consider sponsoring the program which would be held on-site on either a Saturday or Sunday in February or March.

The Guild's program would bring two singers, a narrator and an accompanist to the Lab for a fifty-minute program of highlights from Donizetti's comic opera, "Don Pasquale." The narrator explains the opera's composition while the singers present selected arias, duets and dramatic pieces.

Parents of children interested in attending the Guild's introduction to opera should contact Blanche Laskee, Ext. 2873, as soon as possible.

## A Film About 19th Century Quebec

The French-Canadian film "Kamouraska" will be presented by *Le Cercle Français de BNL* in Berkner Hall, at 8 p.m. on Tuesday, November 28. All members of the BNL community and their friends are cordially invited. Those who are not members of the BNL French Group will be asked for a donation of \$2 (\$1 for students) to help cover the expenses of film rental. Refreshments will be served after the film.

Set in Quebec of the 1840's and 1850's, "Kamouraska" depicts the rigidly Catholic, stratified society of that era. Genevieve Bujold portrays Elizabeth, married at an early age to "The Lord of Kamouraska," a drunken, sadistic tyrant. The impact of Philippe Leotard in this role is comparable to that of Marlon Brando in "A Streetcar Named Desire." When Elizabeth falls in love with her doctor (Richard Jordan), it doesn't take long for the two of them to arrange for her widowhood. After Elizabeth's scandalous murder trial, her former mother-in-law arranges for her marriage to a rich city man, with the statement: "You are condemned to innocence."

The grim reality of the Quebec winter is relieved by beautiful color photography and the imaginative use of natural light and shadow. The film won several awards in Canada, including one to Mlle. Bujold for her performance. The sound track is in French, and there are English subtitles.

## Arrivals & Departures

### Arrivals

Babette P. Chenet.....Biology  
Rosalie Lawrence.....Fiscal  
Karl T. Von Bock.....Energy & Env.

### Departures

John R. Bieling.....Accelerator  
Walter L. Kalinowski.....Energy & Env.  
Sheila M. Lampert.....Energy & Env.

## Cref Values

January	\$35.72	February	\$34.96
March	36.15	April	39.28
May	39.62	June	38.94
July	41.03	August	42.17
September	41.86	October	\$38.18

## BERA Amendments

Due to an unavoidable delay in the reproduction and distribution of ballots for the proposed BERA Constitution amendments, the deadline date for voting has changed from November 20 to November 30.

## Faces/Places



Marsha Kipperman, Employment Supervisor in Personnel, today celebrates her one-year-and-three-day anniversary at BNL. Originally from New Haven, Connecticut, Marsha received her Master's degree in college personnel administration from the University of Miami at Coral Gables and served in various personnel management positions before coming to the Lab.

Those who note the Gold League's weekly bowling scores know that when she's not co-ordinating employment systems within her department or seeing that policies, procedures and proper interviewing are carried out, Marsha is an avid bowler. "I've been at it about 16 years," she said, and recalls that her best game ever is a 235.

Of the Lab, Marsha said "the opportunity for professional growth, learning and research in one's field is almost unlimited. The unique environment here far surpasses any other which I've known; people are very friendly and I found it easy to develop good working relationships with all levels of personnel here."

Marsha moved to Long Island six years ago after trying out cities such as Atlanta and Miami.

"I wasn't finding my place in big cities," Marsha continued, and the "quiet, country life" on Eastern Long Island greatly appeals to her. She lives in Riverhead.



A native of New York City, Antoinette (Toni) Cockerham is happily adjusting to life in BNL's Division of Contracts and Procurement where she is a contracts specialist.

"My job," Toni stated, "begins with requests from BNL scientific personnel to procure the services, research and development of organizations or individuals outside the Lab."

"Using federal procurement regulations," she continued, "I write and administer contracts between the Lab and specific contractors."

Toni, who is beginning her third month at BNL, lived in Boston, Massachusetts for eight years where she received her Bachelor of Arts degree in English from Wellesley College.

In fact, Toni became aware of a position at the Lab during the course of her work at Harvard. "I was discussing a research proposal that I'd sent to the Lab with my present supervisor, Tony Salvo, when he mentioned that he was interviewing for a contracts specialist and that, if I was interested, I should send him a copy of my resume." Toni was - and she did.

"The Lab is the perfect place for me to be. Long Island life is quiet and peaceful," noted Toni, "and I'm doing work I enjoy." An "exercise buff" who writes in her spare time, Toni hopes to organize and someday publish her poetry. She currently lives on-site.

—photos by Reben



# BROOKHAVEN BULLETIN

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## Medical Plan Praised

The following letter from an employee to Personnel Manager Joseph Washburne says it all:

On behalf of my family and myself, I would like to take this opportunity to express our gratitude for the medical coverage that we have here at the Laboratory. My wife became very sick toward the end of spring and she had to have numerous examinations done. She went from the family doctor to a heart specialist, to the Suffolk Heart Group, for further testing to Southside Hospital for further definitive testing, to New York City, to New York University Hospital for double bypass open heart surgery. My wife is now at home and doing very well.

The expense was staggering and I was beginning to worry about certain medical bills and expenses. Our medical coverage took care of the major expenses that I incurred with the Surgeon, Cardiologist, Bacteria and Infection Specialist, and the Anesthesiologist. The hospital bill was extremely expensive and was completely covered by the BNL medical plan.

During the surgery my wife also received numerous pints of blood, for which I am also very grateful to our Blood Program, also the cost of processing the blood was picked up by our medical insurance here at BNL.

In the past, I always moaned and groaned everytime I had to pay \$10 or \$15 dollars for some minor medical expense. If I had to carry the burden of this current expense myself, there is no way on earth that I could meet this obligation. I just want to say thank you and the Laboratory for everything.

Sincerely yours,  
Michael F. McAllister

## Pool Closing

The swimming pool will be closed for maintenance Monday, December 4, 1978 through Monday, January 1, 1979.

On re-opening day, January 2, the following schedule will be in effect:

### Monday through Friday

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

Employees Only

5:00 to 9:30 p.m.

Employees/Family Members/Guests\*

### Saturday and Sunday

1:00 to 6:00 p.m.

Employees/Family Members/Guests\*

Tickets for the new season (January 2 through April 30) will be sold at the pool starting on re-opening day.

### Season ticket prices:

\$15 Individual

\$25 Family

### Daily admissions:

\$1 Employee/Family Member

\$1.50 Guest\*

\*One guest per employee is permitted at the pool. Advance arrangement for additional guests (but not more than five at any one time) may be made at the Recreation Office. Employees will be responsible for the conduct of their guests.

## Selected Reading

Appl. Opt. 17, November 1, 1978

Insects as unidentified flying objects. P.S. Callahan and R.W. Mankin. 3355-60

Bull. At. Sci. 34, November 1978

Banning nuclear tests: Cold feed in the Carter administration. W.H. Kincade. 8-11

Science 202, November 10, 1978

Science: Support, excitement. N. Hackerman. 579

PETRA and PEP: Two machines race to probe the new physics. A.L. Robinson. 608-12

## Two Cited For Safety



Evelyn Ritter (seated) and Irving Feigenbaum (second from right) receive "Wise Owl Awards" from Jerome Hudis, Chemistry Dept. Chairman (left) and Arthur Schwarzschild, Deputy Chairman of Physics (right). Sponsored by the National Society for the Prevention of Blindness, the citations are given to those who, by wearing safety glasses, have avoided possible eye damage or blindness caused by a work-related accident. Earlier this year, both Feigenbaum, a technical supervisor in Physics and Ritter, a lab technician in Chemistry, were involved in accidental acid spills in which their vision was saved due to the wearing of safety glasses. S&EP recommends employees who may qualify to receive the Society's safety award. Ritter and Feigenbaum join over two dozen other BNL employees who have received the award.

—photo by Reben

## Star Wars Tryouts

Come one, come all to auditions of the Theater Group's Mini-Musical Star Wars. Yes, you heard it right! Luke Skywalker, C3PO, Han Solo, R2D2, Chewbacca, Darth Vader, Ben Obi-Wan Kenobi, and Princess Leia Organa will all be singing and dancing their way into your hearts — not to mention assorted Jawas, Sand People, and Storm Troopers.

Auditions will be held on Thursday, November 30 at 8 p.m. in the North Room of the Brookhaven Center. There will be only one show on Friday, December 15 at the Center. Come and join us for this extravaganza! All ages are welcome. Come to the tryouts: may the Force be with you!

## Ham For The Holidays

Smoked, bone-in hams — ready for your holiday table — are now available from the cafeteria. At \$1.69 per pound, they may be ordered by calling Ext. 3541.

## Volleyball

### Mixed League

#### Division A

On November 6, Nuclods beat the No Names: 15-11, 15-12, 4-15. Family Affair swept over the Diamonds: 15-13, 6-15, 15-11. Nuts & Bolts bolted the Popovers: 15-5, 10-15, 15-8.

Oceanography swam over Lookin' Good: 15-5, 15-6, 15-7.

#### Standings

Oceanography	6-0
Nuclods	5-1
No Names	4-2
Diamonds	2-4
Family Affair	2-4
Lookin' Good	2-4
Nuts & Bolts	2-4
Popovers	1-5

#### Division B

Nads shone over LeMufs: 15-10, 15-4, 15-9. Balls & Strikes stroke over Medical: 15-2, 15-10, 15-10. Leftovers beat the Wisa's: 15-8, 16-14, 15-7.

#### Standings

Nads	6-0
Leftovers	5-1
Balls & Strikes	4-2
Wisa's	3-3
LeMufs	0-6
Medical	0-6

#### Employees League

On November 8, The Bumps bumped Atom Spikers: 21-7, 16-21, 21-5. Cool Tools shone over Phoenix: 21-18, 16-21, 21-19. The Spikers swept over Toga: 21-16, 21-9, 22-20.

	W	L	Pct.
Spikers	6	0	1.000
Bumps	5	1	.833
Toga	3	3	.500
Cool Tools	2	4	.333
Atom Spikers	1	5	.167
Phoenix	1	5	.167

## Cooking Exchange

'Tis the harvest season — the time for bountiful feasts! Join the Cooking Exchange on Wednesday, November 22, from 12:30 to 2:30, when traditional foods will be creatively prepared. Scalloped oysters, boned turkey, and cranberry tea are some of the Colonial favorites that will add a new twist to your holiday dining.

Do come along to the Recreation Building and take part in the pre-holiday festivities. Admission is 75¢, and babysitting is provided at 25¢ for each child.

## Bridge<sup>2</sup> To Be Taught

If interest warrants, free lessons will be given Thursday evenings in Brookhaven Center in the art of duplicate contract bridge using modern, standard American bidding methods (five card majors).

Players should contact Colin Durston, Ext. 2598 or Bharat Bhatt, Ext. 2966. Meetings will be arranged at a time convenient to those who express interest.

## Bowling

### Purple & White League

The Good Times and The Pen Mac's are tied for first with the Flounders in third by only one point.

Ed Meier and Nate Carter had high games for the men, 221, and Caryl Mac Dougall for the ladies with a 197. Ed Meier had high series with a 575. Other good games were by Bob Brown 193/204, Carl Murray 209, Ted Erickson 199, Sharon Smith 188, Gerrie Riker 177, Audrey Bangel 172, Jeanne Penoyar 170.

### Red League

The 76'ers took 9½ points from the Trouble Shooters. J. Connelly (212) had a 582 scratch and R. Larsen a 204. The Freon Loaders (a 1059 game) won 8-3 over the Designers (a 1053 game). A. Pinelli had a 203, F. Stahman a 201 and F. Powers grossed 629.

The Old Timers only managed 3 points in a match against the Old Timers II. Another great night for R. Adams (201/202) while H. Frei grossed 612. The Anachems downed This Isa Team 8-3. E. Gill had a 209. The Sparks shut out the Sandbaggers 11-0. R. Jones tooled a 201.

### Pink League

Helen Keeley had high game (196) and high triple (478) for the night. Renie Rosati had a beautiful 193, Millie Connelly 179, Ellie Kristiansen 171, Ellen Jacobson 167 and Marge Stoeckel 166.

### Gold League

Position night found the Swingers in first place by two points over the Personnelites. Claudia Tyler showed her bowling skill making the 4-7-9-10 split and Elaine Liguori the 3-7-10. Marsha Kipperman rolled a 210 and finished with a 504 series. Other high games were by Marie Cooney 171 and Betty Jellett 175.

## Runner's Corner

A general meeting of the Runner's Club will be held on Dec. 1 at noon in Room A, Berkner Hall. All runners are invited. Topics to be discussed include a winter run and clinic. Bring your lunch.

## Basketball

The final opportunity to sign up for the 1978-79 basketball season is fast approaching. Those interested in playing should submit their names at the Gym or at the BERA Film Service Office before Wednesday, November 22.

The league is open to all employees working on site, persons with BNL or AUI guest and visiting appointments, and spouses of all the above mentioned groups.

## Aviation Club

At its November 8 meeting, the Aviation Club's by-laws were approved and the following officers were nominated: President, Rod di Girolamo; Vice-President, Tom Dickinson; Secretary/Treasurer, Audrey Karzenski and Corresponding Secretary, Larry Leipuner.

Elections will be held at the Club's December 13 meeting in Room A, Berkner Hall at 1715.

In other business, guide lines for the purchase of a Club plane were developed and two F.A.A. films were shown. The Club welcomed three new students, Sonja Haber, David McChesney and Chiang Yuan Yang, to "the friendly skies."

Rob Dobert, Ext. 4082, can provide additional information to prospective members.

## Stony Brook Events

The following events, held on the campus of the State University of New York at Stony Brook, are open to the public:

### Friday, November 17

**Taproot Theatre:** "Lives" by Claire Nicolas White and "Workshop" by Laura Fox, today and tomorrow, 8 p.m., 116 South Campus B. For information call 246-5678.

**Speaker:** "The Galactic Neighborhood," 7:30 p.m., 001 Earth & Space Sciences. A. Yahil. Weather permitting, telescope viewing follows.

**Speaker:** "Problems of the Greek Family," 8:15 p.m., 236 Stony Brook Union. S. Fochios.

**Dance:** Caribbean Dance Group, 8 p.m., Stony Brook Union Auditorium. \$2 admission. Call 246-3807 for more information.

**Art Exhibit:** "The Sister Chapel," paintings portraying aspects of women, through Dec. 15, Art Gallery, Fine Arts Center. Fridays, 7-10 p.m.

### Saturday, November 18

**Children's Theatre:** "Oliver," 8 p.m. today, 2 p.m. tomorrow. Stony Brook Union Auditorium. \$2 admission. For further information, call 751-7243 or 585-1868.

**Concert:** University-Community Orchestra, 8 p.m., Main Auditorium, Fine Arts Center. Program to be repeated Sunday, Nov. 19.

### Sunday, November 19

**Concert:** Soprano Joy Kim-Slote, oboist Ronald Roseman, and clarinetist David Glazer, 5 p.m., Recital Hall, Fine Arts Center. Tickets: \$5.50. Call 246-5678 for more information.

**Concert:** 10 CC, 8 p.m., Gym. Call the Student Activities Board at 246-7085 for ticket information.

### Monday, November 20

**Artist Series Recital:** Flutist Karl Kraber, 8 p.m., Recital Hall, Fine Arts Center. General admission, \$3.50, students, \$1. Telephone 246-5671 for further information.

### Tuesday, November 21

**Concert:** "Mostly from the Last Decade," 8 p.m., Recital Hall, Fine Arts Center.

**Theatre:** "Such Tunes as Killed the Cow," 8:30 p.m., 114 South Campus B. To be repeated Nov. 28 and Dec. 5. Donations. Call 246-5678 for information.

### Wednesday, November 22

**Recital:** Pianist Robert Curry, 8 p.m., Recital Hall, Fine Arts Center.

**Exhibit:** "The Colonial Gravestones of Long Island: Trade Network Indicators, 1670-1800," through Dec. 15, University Museum, 142 Social Sciences A. Hours: Wed. and Thurs., 3-7 p.m.

## Reports Available

The following reports are now available to the Laboratory Staff and to Affiliates of the DOE, AUI, and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. Staff members should call Ext. 3484.

- BNL 50736 \$4.00**  
The Role of Wind Power in Electric Utilities. H. Davitian
- BNL 50737 \$4.00**  
Development of a Glass Polymer Composite Sewer Pipe from Waste Glass. Progress Report No. 5, July - September 1977. L.E. Kukacka, et al.
- BNL 50738 \$4.50**  
Cementing of Geothermal Wells. Progress Report No. 6, July - September 1977. L.E. Kukacka, et al.
- BNL 50740 \$4.00**  
Comments on Muon Trapping. A.J. Stevens and A.M. Thorndike
- BNL 50741 \$4.50**  
HOPI - On-Line Injection Optimization Program. J.-L. LeMaire
- BNL 50742 \$4.00**  
Reducing  $\beta_x$  and  $X_p$  by the Use of a Split Quadrupole Lattice. H. Hahn and G. Parzen
- BNL 50744 \$4.50**  
A Liquid Wall Boiler and Moderator (BAM) for Heavy Ion-Pellet Fusion Reactors. J.R. Powell, et al.
- BNL 50745 \$6.50**  
Impact of Selected Energy Conservation Technologies on Baseline Demands. A. Doernberg
- BNL 50748 \$4.00**  
The Removal of Tritium from Fusion Reactor Blankets. Annual Report for FY 1977. R. Wiswall and E. Wirsing
- BNL 50751 \$4.50**  
Alternate Materials of Construction for Geothermal Applications. Progress Report No. 14, July - September 1977. L.E. Kukacka, et al.
- BNL 50753 \$4.50**  
IRATE: An Interactive Computer Program for Access to the Energy System Network Simulator (ESNS) Model. W.A. Sevan, et al.
- BNL 50754 \$4.50**  
A Data Bank for the Geographical Allocation of Future U.S. Energy Supply Facilities by County. W.A. Sevan and S.R. Bozzo
- BNL 50758 \$4.50**  
Tritium Storage Development. Progress Report No. 13, July - September 1977. P. Colombo and R. Johnson
- BNL 50564 \$5.25**  
Noise Radiation From Energy Center Cooling Towers. J. Zaharia, et al
- BNL 50697 \$4.50**  
Waste Management Procedures For Fusion Based Central Power Stations. T.E. Botts, et al
- BNL-NUREG-50773 \$12.00**  
An Advanced Thermohydraulic Simulation Code For Transients In LMFBRs (SSC-L Code). A.K. Agrawal, et al
- BNL 50824 \$4.00**  
Buncher Cavity for 750 keV Protons. J.T. Keane
- BNL 50832 \$4.00**  
Low Beta Accelerator for Xenon. J.T. Keane
- BNL 50833 \$4.00**  
20 kW Transmitter for CW Operation at 50 or 17 MHz. J.T. Keane
- BNL 50834 \$4.50**  
Alternate Materials of Construction for Geothermal Applications - Progress Report No. 15 - October 1977 - March 1978. L.E. Kukacka, et al
- BNL 50842 \$4.00**  
Possible Brick Wall Effect at 400 GeV in ISABELLE. G. Parzen
- BNL 50843 \$4.00**  
Brick-Wall at High Energy From Trapped Electrons in A dc Beam. M. Month
- BNL 50848 \$4.00**  
Lossless Injection With A Chopped H- Beam. T.F. Kycia, et al
- BNL 50849 \$5.25**  
Wind Power and Electric Utilities: A Review of the Problems and Prospects. H. Davitian
- BNL 50850 \$9.00**  
Cementing of Geothermal Wells - Progress Report No. 5 - April - June 1977. L.E. Kukacka, et al
- BNL 50851 \$4.50**  
A Study of Transmission and Protection Elements for Wind Energy Generating Systems - Volume I. S. Linke, et al
- BNL 50852 \$4.50**  
Electrolysis-Based Hydrogen Storage Systems - Semiannual Report - July 1 to December 31, 1977. F.J. Salzano, et al
- BNL 50857 \$4.50**  
Climatology of Brookhaven National Laboratory 1974 Through 1977. C.M. Nagle
- BNL 50862 \$11.00**  
An Assessment of Thermal Insulation Materials and Systems for Building Applications. R.P. Tye, et al

## Classified Advertisements

### Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

**LABORATORY RECRUITMENT:** Opportunity for present Laboratory employees.

817. RESIDENT SERVICE SUPERVISOR - Must be able to assume responsibility for all phases of first line supervision of departmental custodians. Included are all aspects of assignment, training, scheduling and direction of work. Good oral and written communication skills are required as well as experience with detailed record keeping. Staff Services Division.

**OPEN RECRUITMENT:** Opportunity for present Laboratory employees and outside applicants.

818. DEVELOPMENT ENGINEER - BSME with demonstrated experience in the design and fabrication of precision components, preferably optical. Knowledge of ultra-high vacuum techniques, material and electro-mechanical instrumentation and components desirable. Analytical skills in strength of materials, vibration analysis, and heat transfer required. National Synchrotron Light Source Project.

819. RADIOACTIVE WASTE MATERIALS TECHNICIAN - AAS or equivalent capabilities in Chemical Technology or Chemistry to assist in the production of radioactive isotopes and radiopharmacology products as well as the processing of radioactive waste. Demonstrated ability in table top wet chemistry and instrumentation technology desirable. Mechanical aptitude highly desirable. Medical Department.

820. MECHANICAL TECHNICIAN - AAS degree in Mechanical Technology or equivalent capabilities. Experience in ultra-high vacuum techniques desirable. ISABELLE Project, Accelerator Department.

### Autos & Auto Supplies

69 OLDS - very good cond, new tires, bucket seats, \$350. Gary, Ext. 2491.

72 DODGE CHARGER - 2 dr, 6 cyl, standard trans, steel belted radials, 8 track tape, good cond, \$750. Mickey, Ext. 3218 or 473-7460.

75 CAMARO - 6 cyl, a/t, p/s, p/b, steel belted radials, 33,000 mi, am/fm 8t, excel cond. Roseann, Ext. 7908 or 475-6622.

74 BMW 2002 - 4 spd, orange, 41,000 mi, rebuilt eng, extras, excel cond, asking \$5,200. 286-3493.

65 RAMBLER - American station wagon, manual trans, needs work, \$100. MGA parts, cheap. 589-9103.

74 GREMLIN - std shift, 2 dr, excel gas mi, 45,000 mi, perfect cond, mounted snow tires, roof rack, luggage bag; make offer. Ext. 2967 or 821-9072.

63 DODGE POLARA - 2 dr sedan, 318 V8, a/t, hi mileage, for transp. 281-7620 eves.

68 OPEL - station wagon, std trans, good cond, new brakes, clutch, radio, heater, \$350. Bob, Ext. 2819 or 289-0357.

78 HONDA - 750 cc, mint cond, 1800 mi, many extras, \$2700 invested, asking \$2,000. Must see. Bill, 281-2217.

69 VW SQUAREBACK - good running, 32 mpg, clean inside, some rust outside, \$575. Bill, Ext. 2292 or 286-0243.

75 CADILLAC - Sedan de Ville, vinyl roof, a/c, stereo radio, power, leather int. R. Lane, Ext. 2575.

71 YAMAHA ENDURO - DT-1, 250 cc street legal, good cond. \$350 or best offer; Vega hood, good cond, \$25. S. Norton, Ext. 2913 or 475-5834 after 6.

SNOW TIRES - 2 Gillette, ER78-14, steel belted radials, used 2 months, \$60. Jeff, Ext. 4010.

BRAKE DRUMS - set of 4, resurfaced, fits Dodge & Plymouth cars w/14" wheels. \$40 or best offer. Joe, Ext. 2251.

67 MERCURY COUGAR - 289 V8, a/t, p/s, manual choke, 4 good tires, mounted snows, engine runs well, good brakes. \$350. John, Ext. 4145 or 929-8204 after 5.

72 TR6 - new clutch assembly, ball joints, front brakes & top. \$1800. 751-8415 after 5.

75 VEGA - std, 40,000 mi, excel cond. \$1200. Ext. 4379.

NEW & USED TIRES - rims, repairs, MAG wheel service, reg, radial, Dunlop-Gillette, free instal, balance avail. Fred Usack, Ext. 4597 lunchtime or 475-4935 eves.

69 CHRYSLER 300 - high mileage, excel mech, body good, \$500. Jack, Ext. 4100.

40 CHEVY PICKUP - 1/2 ton, orig, restored, licensed. John, Ext. 2501, 751-6390.

INTAKE MANIFOLD - and 4-barrel rochester carburetor for small block V8 engine, good cond, asking \$55. Annamarie, Ext. 2352.

66 CHEVY IMPALA - clean, new exhaust, good tires, needs valve job. \$150. 589-2648.

GARAGE JACK - hydraulic, 1 1/2 ton H.D., excel cond, \$100. Ext. 4597 or 475-4935.

74 ALFA ROMEO - silver, GTV, a/c, mag wheels, 8 track stereo, Ansa dual exhaust, elec antenna, low mileage, excel cond. Ext. 4374 or 399-3180.

74 CHEVY PICK UP - C-10, shortbed, 6 cyl, std, new paint & tires, 49,000 mi, \$2,350; 1 Chevy Vega 13" rim with very good tire, \$15. 331-2779.

77 PACER WAGON - a/t, radials, reclining bucket seats, insulation pkg, roof rack, am/fm, 24,000 mi, \$3,950. John, Ext. 2070 or 283-0223.

SNOW TIRES - 2, used only 1 season, like new, Sears Dynaglass XST, whitewall, size L78-15, \$30/pair. Lorraine, Ext. 3640.

AUTO TRANSMISSION - C-4, B&M, low mileage, holedshot converter, \$100 for both. Chris, Ext. 9612 or 281-7379.

72 VOLVO WAGON - (145E) good cond, \$2,000 or offer. 345-2058 days or 549-3671 eves.

TIRE RIMS - (4) 15" white, 5 hole pattern, \$40. 979-6675 after 5.

77 MOTORCYCLE - Honda "Trail 90," street equipped, never used. \$450. 585-7861 after 6.

74 OLDS - Custom Cruiser station wagon, immaculate, fully equip, 63,000 ci, \$3200. 744-6043 after 6.

69 VOLVO 1445 - loaded, new radials, brakes, exhaust system. \$500; 72 Pinto, 4 cyl, 4 spd, \$400. Pete, 924-8534.

76 AMC HORNET - wagon, a/t, p/s, radio, 20 mpg, very good cond, avail Dec 1, asking \$2800. Ext. 3577 or 924-6047.

68 MUSTANG - 289 engine, 61,000 mi, 3 spd, std shift, some rust. \$400. 298-8537.

66 VW SQUAREBACK - good interior, glass tires, battery & paint; some rust, 158,000 mi on orig eng. Bob, Ext. 4637 or 692-8659.

60 FAIRLANE - good condition, best offer. 289-5950 or 281-6365.

71 CHEVY - Kingswood wagon, p/s, p/b, a/c, radio, \$650. 286-9098.

SNOW TIRES - Sears Traxionex radials, FR78-14, (2) mounted on Chevelle rims, very good cond, \$50/pr. Richard, Ext. 3534.

AIR COND - add on air cond, Mark IV, complete. Matt, Ext. 3935.

TRAVEL TRAILER - 23' yellowstone, fully self cont, rear bunks, sleeps 6, full bath, screen house, extras, \$3,500. 585-4869 after 5.

MOTOR HOME - 1976 Pace Arrow, 25', sleeps 8, excell cond, \$1,300. 289-8733 after 5.

72 CADILLAC - sedan-Deville, fully equipped, vinyl roof, leather int, many extras, low mileage, excel cond, \$2,300. 472-0086.

### Boats & Marine Supplies

CLAM BOAT 21' - motor, trailer, good cond. \$475 or best offer; 25' Ulrichon with cabin & bridge, 382 Chrysler, V8 motor, many new extras, best offer. 286-0372.

28' LUHRS - F/B, sleeps 4, 327 V3 recently rebuilt, new exh manifolds, many extras, must see. Sacrifice \$2,500. 698-6436.

POWER HEAD - new for 7 1/2 h.p. Elgin outboard motor, \$15. John, Ext. 3848.

68 WINNER - 17', 60 hp Gail motor & "Tee Nee" trailer, full canvas navy top. \$1300. 588-2999 after 5.

### Miscellaneous

ORANGES AND GRAPEFRUITS - directly from Florida. Delivered on-site. Oranges, \$8.00; Grapefruit, \$7.00. Rosso, Ext. 4089.

KITCHEN CABINET - birch with formica top, 2 sm drawers, 2 metal lined lg drawers, cupboard, breadboard, never used. \$35. 475-8971 after 6.

SLIDE PROJECTOR - Kodak Carousel, Model 600, like new, \$55. Jim, Ext. 4476.

COAT - Persian lamb, size medium, excel skins. 744-6209 or 744-0627.

DRAPES - several styles; Royal typewriter, needs new platen, \$5. G. Williams, Ext. 3338.

REF/FREEZER - United double door, 7 yrs old, moving. \$150. Jack, Ext. 4100.

ADDING MACHINE - Remington, hand operated mechanical printing, full keyboard, 8 digit, perfect cond, make offer. 941-4328.

EVERGREENS - spruce & fir, 24" to 40" tall, healthy, fast growing, easy to dig, you dig, 2 for \$7. 727-1617.

FLEXIBLE FLYER - 52", hardly used, \$20. Bill, Ext. 3992 or 298-4172.

HAM STATION - Kenwood 5205, w/speaker and mike, Swan WM 2000, Dentron S.S. tuner, all band, double ant, Drake TV-3300 Lo pass, \$950. John, 929-4450.

LAWN MOWER - Sears Craftsman Eager, 20" cut, \$50. 979-6675 after 5.

ANTIQUY - 30" drum table mahogany, w/genuine leather, good cond. 586-3574.

TICKETS - to Joffrey ballet mat., Nov. 26. Ext. 3591 or 265-0501.

CRIB - sturdy crib & mattress, good for Grandma's house, \$20; man's & lady's bowling balls, \$5/each. 584-7324.

BUFFET - danish modern, 5' long, 36" wide, walnut, \$175; china closet - danish modern, beveled glass doors, walnut, \$150. Ext. 4532 or 581-9199.

ORGAN - custom built Schober electronic spinet, (2) 44 note keyboards, 13 pedals, 23 voices. \$475. R. Hildenbrand, Ext. 3273.

DRUM SET - 7 piece set & stool, ideal Christmas, 1 drum needs skin, \$55. 289-3415.

SHUTTERS - white pine (used) 2 pr 16"x55"; 1 pr 16"x43". \$2 a pair. GR5-8658 after 6:30.

UNICYCLE - Ideal Christmas gift, \$20.00 289-1755.

RED HENS - (16) 2-yr old Rhode Island hens, 6-8 lbs, \$1.50 ea. Ext. 4496 or 286-0682 after 6.

SKIS - Volkyl 175 cm fiberglass, like new, \$50; Fischer 180 cm fiberglass skis, \$20; Tyrolia jr. bindings, \$15. Frank, Ext. 3898.

TYPEWRITERS - 3 portables, 1 Underwood deluxe w/case, \$30; 1-Royal Skylark w/case, \$30; 1-Sears Tower w/case, \$30. GR5-8658.

BICYCLE - Ladies Vista, 5 speed, 27", \$75. 472-3267 after 5.

ARMOIRE - antique French, oak w/beveled mirrored doors, 7'x4 1/2'. 883-2751 after 6.

SKI BOOTS - ladies Rieker, blue with fur lining, 5 buckles. Must sell. Excel cond. \$60. 286-0176.

KITCHEN TABLE - gray formica, very good cond, \$10; Hohner accordion, 80 bass, good cond, \$75 or best offer. Sharon, Ext. 3793 or 878-2591 after 5.

SHUTTERS - wood, 16" wide x 47"; bathroom sink, white cast iron, standard 22"x19" wall hung. Ext. 2113.

FILM - Polaroid, type 108, expiration date 10/78. Jim, Ext. 2485.

REFRIGERATOR/FREEZER - United 23 cu ft, excel cond. \$225. 538-8310 after 3.

VENETIAN BLIND - 10' wide, good cond, \$20; convertible sofa arm chair to single bed, excel cond, \$35. Joe, Ext. 4069.

RADIO - General 650-A Impedance Bridge, \$75; capacitive discharge ignition, \$15; enclosed rack with fan for field use of electronic equip, \$5. Wayne, Ext. 2824.

SOFA - Colonial, gold, \$35. 666-5367.

SKIS - metal Austrian blizzards, w/grand prix binding, poles & boots size 9, \$120; typewriter, Adler \$60; Rolleflex photo camera, \$150. Mike, Ext. 2575.

CB - 23 ch, Lafayette base, w/ant, cable & more. Ben, 286-2282 eves.

DRESS FORM - adjustable 32-39 bust, 34-41 hips, \$10; wiring & socket for swag lamp with chain, \$3; warming tray, \$4. Kathi, Ext. 2913.

FUR - ranch mink jacket, small, beautiful cond. 744-9822.

WOOD - oak, maple. Delivered. \$100 cord; \$55 half cord. Bob, 475-2075.

WINTER COAT - black borgana, gray collar/cuffs, size 16, never worn, \$75; baby stroller, deluxe, chrome, good cond. \$20. J. Weber, Ext. 2003 or 472-0086.

TRAILER - Avion, 25', a/c, hot water, awning, hot air heat, gas, elec, refrig, bath w/vanity, \$3,500. Larry, 475-7453.

DRESSER - wooden, \$15; 1 round basket, \$10. Ext. 3327.

BICYCLE - girls 21" frame, 3 speed Schwinn, good cond. \$30. Peter, Ext. 4324.

PRESSURE COOKER/CANNER - Sears, used 4 times, instructions incl. \$35. Joe, Ext. 2251.

TUTANKHAMAN TICKETS - wish to swap 4 tickets for Dec. 22, 5 pm for acceptable substitute. 473-2473.

HEADBOARD - for full size bed; twin size mattress; chair; lamp; curtains, etc. Good cond and reasonable. 473-2754 before 10 pm.

TV - Panasonic 19" b/w, excellent; swivel rocker, Cosco step stool; RCA b/w maple console as is, \$30. 325-1961.

OIL BURNER - Paragon with 1 gal./hr. nozzle, \$20. Ext. 4428.

SECTIONAL - Spanish Mediterranean, gold crushed velvet w/corner table; red crushed velvet club chair, showroom cond, asking \$650. Steve, 884-1945.

BED FRAME - maple, single; old wall mirror; antique console radio. Reasonable, make offer on all. Ron, Ext. 4082.

WOOD STOVE - Airtite 560-burning, burns over 30" logs w/insul stack approx 16'. \$350. Ron, Ext. 4082.

WORK BENCH - Craftsman, steel frame, 2'x5' shelf style. \$30; 5 shelf steel utility unit, \$5; upright freezer, 23 cu ft w/touch-a-matic defrost, \$225. Mickey, Ext. 3218.

LEATHER FLIGHT JACKET - size 38, worn once; boy's bike & girls 3-speed bike, reasonable. Betty, Ext. 2208 or 289-5688.

FUR JACKETS - I.J. Fox, N.Y., (2) current style, good cond, light to dark brown. Ext. 2026.

FUR COAT - elegant real fur, seal coat (brown), petite size 6-8, insured value \$1,000, will sell \$300; 2 wrought iron recliner patio chairs, heavy, Hamacher-Schlemmer, pad, \$50 for both. Ext. 3811 or 744-4789.

SWIVEL CHAIR - executive, modern beige & brown, adjustable, hooded casters, \$35. Ext. 4240 or 286-0295.

PIANO - Baldwin Hamilton studio, excellent cond. Ext. 3570 or 744-9746 after 6.

BIKE - 20" w/banana seat & chrome fenders, excel cond. \$40. Nick, 475-5543.

ENGAGEMENT RING - heart shaped diamond, .95 in white gold setting. 363-7032.

HOCKEY ICE SKATES - Bauer, boys, used once, size 4, \$20; Lady Franklin wood burning stove, 24" wide, 30" high, \$100. Sal, Ext. 4703.

SWEATERS - Peruvian alpaca wool knitted sweaters & hats; silver & gold bracelets, earrings, key farb. Luis, Ext. 4851.

Please see supplement for ads that do not appear on this page.

**Miscellaneous**

CHINA - service for 6; silverware; kitchen set; bed-room set with twin beds. 744-9822.

COFFEE & END TABLES - custom made, walnut, wrought iron legs, \$50 set; movie camera lights w/ case, \$5; silver Christmas tree w/skirt, \$3. 289-7470.

TV - 21", b/w; recliner chair, green/white hutch w/ glass doors, all good cond. 744-9822.

POOL TABLE - 7', good cond, \$75. 473-1456.

DRYER - Sears portable, 3 cycle, \$100. Ron, Ext. 4636.

CHANDELIER - 5 light w/chimneys, new, \$15. Pat, Ext. 4602.

AQUARIUM - 20 gal, good cond, w/stand, hood, bottom & back filters, air pump, heater, other accessories, \$35. Ext. 2906.

DISHWASHER - portable, \$35; folk guitar w/case, \$20; electric guitar w/case, \$35. 924-6918.

ANTIQUE VICTROLA - console model, excellent, records included. Gary, 736-0912.

TV SCOPE - Heathkit GRD-2000, DVM design console and assoc. books, \$200. Manny, 727-9058 or Ext. 2024.

SKIS - Fischer glass 707, 185 cm, Marker step-in bindings, poles, very good cond. \$180 new - \$40. Ext. 3319.

FIREWOOD - 4'x8'x18" logs, \$45; 4'x16'x18" logs, \$90. 924-4284 after 5:30.

PIANO - Wurlitzer w/bench, white provincial, \$600; stenotype machine w/stand, carry case, paper, \$125. Kay, Ext. 4605.

MASSAGER - 2-spd, belt, Sears model, \$75; GE washer, needs transmission, \$25. Kay, Ext. 4605.

SKIS - Jr., 2 pr, 165 cm wood cross country w/cable bindings, \$7.50/pr; 1 pr 135 cm wood downhill with Tryola bindings, \$5. Bob, Ext. 4637.

FURNITURE - beautiful double bed, dining table, study table. Le, Ext. 2060 or 345-2512.

BIKE - boys 14" frame, 20" wheels, good cond, \$20. Lew, Ext. 3618 or 281-7547.

BIKE - girls, 3 spd, 26", good cond. \$40. 878-1731 after 6.

BIKE - folding, excel cond, \$25. J. Aggus, Ext. 4742.

TAPE RECORDER - reel-reel; am/fm radio-phono w/ speakers; elec typewriter. The price is right. 281-7974.

CURTAINS - fully lined, beige, open weave w/rust threads, 7'x11", \$50. Sheryl, Ext. 2498.

MARANTZ RECEIVER - 2230 codel, excel cond, \$235; 2 lg book shelf speakers, \$75. 581-0205 after 5.

GAS RANGE - 30" brown, 4 burner + oven, good cond, \$75; Anderson perma narrowline picture sash 5'8"x4'6", new, unpainted, \$140. 331-2779.

SKIS - 205 cm Hart camaro giant slalom, cober bindings, mounted, \$60. George, Ext. 2296.

SHOPSMITH - Mark V, 3/4 hp, excel cond. GR5-0831.

FIREPLACE SCREEN & ANDIRONS - Black/brass deluxe set. \$25. 878-0897.

CREPEMAKER - Farberware, new, \$10. Ext. 3600.

SOFA BED - 34"x74" with metal base frame, back cushions, corduroy spread, like new, \$65. 475-8971 after 6.

FM STEREO TUNER - Scott 433, digital frequency synthesizer, digital freq display, card programmer, \$600 cost - Sacrifice \$200. 473-8426 after 7.

WASHER - Kenmore, \$45; Drop leaf table, \$25; Tiffany hanging lamp, \$12; exercise belt mach., \$25; Philco stereo, \$40; dresser \$15. Steve, Ext. 4605.

TV - 19" GE b/w portable, good cond. \$25. Ext. 4232.

LAWN MOWER - Reo 20" (reel), \$25; Melnor traveling sprinkler, \$15; Detecto bath rm scale, \$5. Palais, 698-0576.

ROLLER SKATES - size 4, black w/carry case, almost new, \$15; ice skates, black, size 9, used 2 times, \$10. GR5-8658 after 5.

WASHING MACHINE - top of line, used 2 yrs, recently serviced, gold, all cycles, asking \$200 or trade for decent size refrig. Terry, 281-0360.

GYM MAT - 48x72, \$45. 289-3415.

RUG - green, 9x12; green recliner; 2 table lamps; 3 pc sectional sofa with slipcovers. 744-9822.

SKI RACK - adjustable for car roof, \$20. Ext. 4240 or 286-0295.

WINDOWS - (2) casement type w/storm sash & screens, fit opening 27"x34", \$5/ea. Ext. 4492 or 286-0384.

BEDROOM SET - complete, good cond, \$200. Nick, Ext. 2524.

REFRIGERATOR - \$50; leather covered end table, \$40/pr; tricycle, \$8. 878-2702.

7 FT. ARTIFICIAL CHRISTMAS TREE - Scotch pine, color coded, used one season. Originally \$69, asking \$30. 878-0897.

COUCH - apricot sofa, 6', good cond, w/custom green flowered slip cover, \$25. You pick up. Terry, 281-0360.

LAWN VACUUM - 25", 5 h.p. engine. 653-5989.

TOUR-A-BED - (goes into car seat) \$12; wooden rocking horse for toddler, \$4; tie-on high chair pad, \$2. 475-0144 after 6.

RECLINER/ROCKER - \$35; 10 gal & 15 gal fish tanks w/some acces & slate bottom, \$12 & \$17. Ext. 4172.

ARTIST EASEL - (table height) \$2; Lee Ward's craft kits \$2 & \$4; Gillette super curl styler 3-in-1, \$10. Sue, Ext. 4207.

REMINGTON - 30-06 caliber woodmaster 742 c, 4x scope sling, recoil pad, etc. \$275 or best offer. Bob M., Ext. 2514.

TOYS - Playschool Bristle blocks, \$2.50; snow white magic mirror, \$5; Fisher Price doll house, \$5; many Sesame St. items & puppets. 475-5150.

TWIN BED - mattress, box spring & frame, all good cond. \$25. Terry, 281-0360.

COFFEE TABLE - 2 matching end tables, early american, solid dark pine, \$75. Howie, Ext. 2501.

REFRIGERATOR - Circa 1972 Norge deluxe 22 cu ft, side by side, coppertone, frost-free, good cond, \$150. Pat, 929-8443.

BASSINET - white w/wicker, \$25; port-a-crib, wood, 3 adjustments, \$30. Both good cond. Chris, Ext. 4612 or 281-7379.

2 KUSTOM - 3 + 2 PA Columns, w/covers, excel cond, \$250. 363-2614 after 6.

ORANGES & GRAPEFRUITS - directly from Florida, delivered on site. Oranges, \$8; grapefruit, \$7. M. Rosso, Ext. 4089.

PICTURE SASH - Anderson perma-narrowline, 5'8"x4'6", new, unpainted, \$140. 331-2779.

BRIDAL GOWN - traditional full gown of chantilly lace w/sequin trimmings & high ruffled neckline, lace layered cathedral train, size 8, \$175. Ext. 2540.

STOVE - 30" LP gas, very good cond, \$50. 473-7667.

BEDROOM SET - Danish walnut, triple dresser, mirror, man's chest, queen size bed, headboard with lighted end tables attached, \$450; ski boots, child size 3, \$4; ladies ski boots, size 6, \$5; Men's munaris, size 12, \$10; warm up bib pants, child med., \$7; adult warm ups, navy, \$7. Chuck, Ext. 4481.

STOVE - coppertone, \$25; dresser w/mirror, \$35; cast iron double sink; single bed, box spring & headboard. Jeanne, Ext. 2364.

BRIDGE TABLE - and 4 folding chairs, Samsonite, perfect cond, \$40; slide projector A0300 American optical, \$35. F. Jones, HR3-2734.

PORTABLE POTTY - non flush type, w/chemicals, new, never used, \$20. Sam, Ext. 4665.

LAWN MOWER - Toro self propelled, 21" whirl wind w/bag, \$125. 473-2664 after 8.

GM INFANT CAR SEAT - w/custom terry cover, excel cond, \$10; baby carriage/car bed, gray, frame somewhat rusty, rest good cond, \$10. Lois, 289-8167.

UNICYCLE - Schwinn, hardly used, \$25. 581-0967.

**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**

ROCKY POINT - Contemporary ranch, 4 bdrm, 3 baths, eik, D/R, 2 car garage, den w/fp, carpeting, basement, air, 3 zone oil heat, winter water view, 1/2 acre, low taxes, \$60,000 negotiable. 744-7532.

E. ISLIP - waterfront, The Moorings, pvt. community, 10 rm sprawling ranch on beautifully landscaped acre, 200' bulkhead, dock, tennis, guard service, 5 bdrms, 3 baths, den w/fp, D/R, eik, L/R, 2 car garage. \$139,000. 581-8709.

SHOREHAM - custom built colonial, 4 bdrm, L/R, D/R, eik, 2 1/2 baths, laundry room, w/w carpeting, 1 acre fenced & landscaped, many extras, \$56,500. 744-2821.

MORICHES - wooded 1/2 acre, beach, marina, reasonable tax area, price negotiable. 878-1912.

RIDGE - Leisure Village Regency, 5 large rooms, 2 baths, garage, jalousied porch, all appliances, many extras. 744-8179 or 744-0627.

ROCKY POINT - moving out of state, 4 bdrm, colonial, eik, 2 1/2 baths, fp, w/w carpeting, wood deck, 1/2 acre, private beach. 744-1156.

HEAD OF THE HARBOR - Custom farm ranch, 1 mi from beach, 6 bdrms, 5 baths, 3 fp, 2+ acres heavily wooded, all appliances, must sell, price negotiable. 584-6058 or 981-1327.

BELLPORT - L/R, 12x28 fam rm, eik, 3 bdrms, carpet throughout, 3 1/2 yrs old, wooded lot. 286-8789.

ROCKY POINT - The Tides, 70' ranch on beautiful 1/2 acre, 3 bdrm, oak floors, fp, full bsmt, patio, private beach, furn or not, assumable 6% mtge. \$45,000. 744-6482.

E. PATCHOGUE - 10 rm colonial, beautifully landscaped, rock garden, gazebo, 1.4 acres, horse country, 4 bdrms, 30' L/R, fp, formal D/R, laundry rm off kit, 2 garages, full bsmt, low 60's. 475-0168.

SHOREHAM - colonial, 4 bdrm, fam rm w/fp, 2 1/2 baths, hardwood floors, D/R, eik, full bsmt, 2 car garage, appl, close to school, quiet court. \$57,000. 821-9365.

CALVERTON - 3 bdrm ranch, oil heat & water, storms & screens, fin bsmt w/bath & kitchen, 1 acre. \$34,000. 727-9058.

CORAM - Kensington, beautiful split colonial, 4 bdrm, 2 1/2 baths, raised L/R, D/R, eik, playroom, mudroom, lg center hall, "U" driveway, 2 car garage, landscaped, sprinkler system, must see, mid forties. 698-3592.

E. PATCHOGUE - must sell, 3 1/2 yr custom built 9 rm ranch, prime area, 4/5 bdrms, 2 1/2 baths, huge eik, D/R, 2 dens, 2 garages, appl, carpeting, beautifully landscaped. 289-0443.

MEDFORD - sacrifice, hi ranch, 9 rms, 4 bdrms, 1 1/2 baths, garage, cyclone fence, 100x200. \$33,000. 286-8371 after 5.

**For Rent**

WESTHAMPTON - immediate occupancy until 5/79, fully furnished, eik, garage, near stores, 15 min from LIE exit 70. \$200 per mo + util. 543-7464 after 6.

MIDDLE ISLAND - 2 bdrm, apt. to sublet, 10 min from Lab, w/w carpeting, dishwasher, a/c, terrace. \$325 mo, all util except elec. 1 mo. security. Terri, Ext. 2927 or 924-8599 after 5.

YAPHANK - 1 bdrm, cottage suitable for one person, unfurn, no children, no pets. 1 mo security, reference. \$165 mo plus util. 924-3863 between 6-8 pm.

PARR VILLAGE - 3 bdrm, 1 1/2 baths, townhouse w/ basement & garage, all appl, a/c, w/w carpeting, 4 mi from Lab. Rent or sale. 765-2102 or 751-7096.

**Wanted**

HOUSE SITTER - from Dec. 27 to Jan. 2, north shore. 941-9423 eves or 7-8 am.

MUSICAL TAX DEDUCTION - Bellport area group seeking used but sound/repairable musical insts for use in schools. Donation of insts are tax ded. Stewart, 286-9616.

HOME - for 2 kittens, (1) grey/tan, (1) blk/white chest; also home for spayed cat b/w. 744-2821.

TO BORROW - storm trooper & sand people masks, large. Kinsey, Ext. 2902.

LARGE CANVAS - or plastic cover for boat or pool. 751-8158.

BABYSITTER - on site for 3 yr old. Mon-Fri, 8:30-5:00, prefer playmate. Mary, Ext. 7981 or 286-0638 after 6.

R/C FLYERS - experienced, novice or prospective radio controlled model aircraft flyers interested in possible on-site flying. Bob Larson, Ext. 4656 or 4597.

SNOW BLOWER - 7 h.p., 2 phase, good cond. 289-3114.

BABYSITTER - with tender loving care for 3 1/2 yr old boy, your home. Rocky Point area or on site 8 - 5:15. Call Ext. 2969 or 744-6532 after 5:30.

SLIDE PROJECTOR TRAYS - rectangular for Argus, prefer large size. Ext. 2260 or 286-1214.

HOME - for affectionate, spayed calico cat, loveable, but does not get along with our dog. Ext. 3325 or 744-7493.

ARCHERY SET - For Jerry Kinne, Ext. 3334.

STAMPS - foreign & domestic for handicapped person. My thanks to those who send regularly, all much appreciated. Claire Hull, Ext. 3655.

DOG HOUSE - suitable size for lab retriever. Helen, Ext. 2548.

SHARE APARTMENT - woman w/5 yr old child seeking person to share my apt in Middle Island, 10 mins from Lab, nice area, close to shopping, \$170/mo incl util. Terri, Ext. 2927 or 924-8599 after 5:30.

MUSICIANS - especially string players for Eastern Suffolk Comm. Orch. Practices Tues 7:30-9:30, Riverhead HS; Doll Furniture - donation for parochial school kindergarten. Joe Wall, Ext. 2912.

HOME - for multicolored female kitten. Alina, 281-7547.

SKIS - and poles, youth size. 981-4127 after 5.

BED - Single with box spring & mattress, reasonable. Joe, Ext. 2900.

**Car Pools**

SOUTHAMPTON - would like to start or join BNL car pool, will drive own car for share of driving. John, Ext. 2070.

SOUND BEACH - form or join existing car pool. Leo, Ext. 3167.

SAYVILLE/BOHEMIA - need drivers for existing car pool. Frank, Ext. 2311.

**Lost & Found**

LOST - Carlton 3-7 racquet, locker room. Anand, Ext. 7985.

**Services**

SEWING - hems & alterations. Sharon, Ext. 3793.

MEDITATION - free instruction & group practices or Zen meditation held every Sunday am. Tim, Ext. 2060.

ASPHALT PAVING - and sealing. Bob, 475-4382.

TREE SERVICE - removal, trimming, yards, cellars, garages cleaned, evergreens. 727-1617.

HANDMADE DOLLS - Raggedy Ann & Andy, Holly Hobbie, Annie, Santa, etc. Order now for Christmas. Ext. 2478.

FRUIT BASKETS - for all occasions, price according to size, we deliver, orders filled 24 hr advance. 588-8105.

BABYSITTER - responsible teenager who enjoys children. Brookhaven/Bellport/E. Patchogue area. Jennifer, 286-1022.

HOUSE CLEANING - woman avail for Wading River and Riverhead area full time. 369-1762.

EXPERT TUTORING - reading, math to grade 12; French, German, English in my home. \$10/hr. 941-4328.

HOUSE CLEANER - available, experienced, references, low weekly rates, also rug steam cleaning & window washing within 10-15 miles of Lab. 924-6655.

BABYSITTING - Mastics, Moriches, Shirley. \$1 per hr. Missy, 878-1847.

TYPING - Sandy, Ext. 2318 or 727-0790 evenings.

CHILD CARE - my children in school full time. Have lots of love and attention to care for yours in my home in Shoreham. Lunch, snack, fenced yard. Carol, 821-9547.

MAGICIAN - award winning illusionist available to perform for your clubs, organizations, parties. Reasonable fee. 929-4113.

DRYWELLS - Installed, new lines & line repairs, reasonable. Mike, 289-5704 after 5:30 p.m.

PAINTING - and handyman services. Nick, 286-9249.

THESIS & PUBLICATIONS ILLUSTRATED - Medical, chemical, biological, electromechanical, drawings, charts, schematics, wiring diagrams, instrumentations, and lettering professionally executed. Reasonable. Yani, Ext. 2514.

TREE REMOVAL - trees safely removed, I keep wood, no fee. Chris, Ext. 4612 or 281-7379.

BABYSITTER/ODD JOBS - woman available, reasonable rates. Need something done? 288-6367.

BABYSITTER - days for preschool children by certified teacher in my home; enrichment activities. Jean, 399-5095.

RELIABLE WOMAN - to watch 1 or more children in my own home, trans avail, Commack area. Terry, 499-8377.

DRESSMAKER - custom made gowns, dresses, suits, alterations. Catherine, 588-5476.

NEW & USED TIRES - rims, repairs, MAG wheel service, reg radial, Dunlop-Firestone, free instal, balance avail. Fred Usack, Ext. 4597 lunchtime or 475-4935 eves.

BABYSITTING - I will babysit in my home in Shirley. Jo, 281-2945.

HOME TUTORING - in all elementary subjects, NYS certified K-6 and special education. Programs designed to meet individual educational needs. M. Friedman, 689-9463.

**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.

<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, 40 Brookhaven Avenue.

Employee's Signature \_\_\_\_\_ Life No. \_\_\_\_\_ Ext. \_\_\_\_\_  
 Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).