

BROOKHAVEN BULLETIN

Volume 31 - Number 48 / December 23, 1977
 BROOKHAVEN NATIONAL LABORATORY

HOLIDAY GREETINGS From BNL Children



Kathleen Reilly

Age 9



Melodie Thomason

Age 9



Jodi Post

by Jodi Post
 Age 7

Age 7



Tina Cheng

Age 7



Season's
 Greetings

Patricia Grover
 Age 12

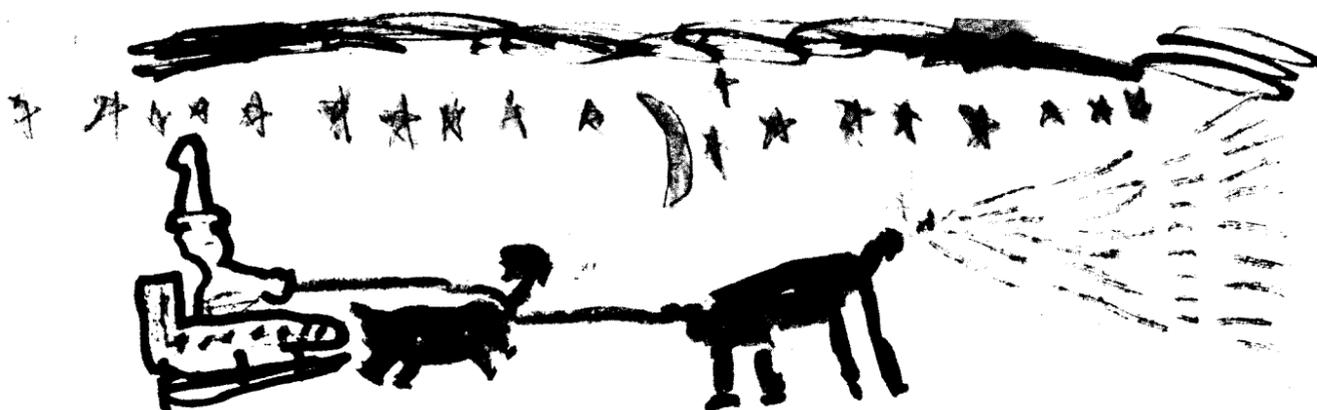
Patricia Grover

Age 12



Sharah Thomas

Age 8



Greg Whitlege

Age 6



Nicole Pecchio

Age 8

(see page 2)

Holiday Greetings From BNL Children

We thank all the children who took the trouble to send us their drawings. Because of lack of space and as many of the colorful drawings would not reproduce well in black and white, we could print only a few. In addition to those noted on the front page, the following children submitted their work:

James Cheung	Ben McMahon
Angela Dang	Bill McMahon
Darren Dunn	Dina Radeka
Nancy Edwards	Kristin Sansone
Garry Marrs	Kenny Sutter
Nancy McHugh	Niku Thomas

All the drawings will be on display in the Cafeteria for a week starting today.

If the children's parents will drop by the Public Relations Office, Bldg. 460, 40 Brookhaven Avenue, we have a small treat for the artists.

Concert Reminder

The National Chorale and the Long Island Symphony Chamber Orchestra will present a free concert featuring works by Mozart and Handel and traditional Christmas music in Berkner Hall at 8:30 p.m. on Wednesday, December 28.

Gym/Pool Schedules

The gym schedule over the holidays will be as follows:

Friday, December 23 through Monday, December 26 - closed.

Normal schedule will resume on Tuesday, December 27 through Friday, December 30.

Saturday, December 31 through Monday, January 2 - closed.

Normal schedule will resume on Tuesday, January 3.

The swimming pool will re-open on Tuesday, January 3.

Schedule
Weekdays
 11:30 a.m. to 1:30 p.m.
 employees only
 5:00 p.m. to 9:30 p.m.
 employees/families/guests
Weekends (Saturday & Sunday)
 1:00 p.m. to 6:00 p.m.
 employees/families/guests

Admissions
Daily rates -
 \$ 1.00 employee/family member
 \$ 1.50 guest
Season Membership -
 \$15.00 individual
 \$25.00 family

Season tickets for January 3 through April 30 will be sold at the pool starting on re-opening day.

Guest Ruling

Only one guest per adult BERA member may be admitted to the pool. Adult BERA members may have more than one but not more than five guests at any one time by making advance arrangements with the Recreation Representative in the Personnel Office. Members will be responsible for the conduct of their children and guests.

Holiday Food Service

The Vended Food Service in Building 912 will be open at all times, and will be serviced regularly throughout the Christmas and New Year's Holidays.

The Center Club Snack and Beverage Bar will be closed on Friday, Saturday and Sunday, December 23rd, 24th and 25th, reopening at 5:00 p.m. on Monday, December 26th. The Center Club will also be closed on Saturday and Sunday, December 31st and January 1st, reopening at 5:00 p.m. on Monday, January 2nd.

The Cafeteria will close at 2:00 p.m. on Friday, December 23rd. On Saturday and Monday, December 24th and 26th, and Saturday and Monday, December 31st and January 2nd, Snack Bar Service will be available from 9:00 a.m. until 2:00 p.m. The Cafeteria will be closed on Sunday, December 25th and Sunday, January 1st.

The Coffee Truck will not make its rounds on Friday, December 23rd, due to the half holiday.

Retiring - December 31st



John Tremski



Eleanor C. Anderson



Casimir Z. Nawrocki



Karl Brandl



Helen Forsberg



Alice A. Mabry



Kenneth Bubb



Allan G. Wood



Harry L. Hankins



Olga Vario



Elizabeth J. Edwards



John P. Schneider

— photos by Rosen

A number of employees are retiring at the end of this month, some of whom have been here as long as 30 years. We wish them all good health and happiness.

Eleanor C. Anderson, Hospital Services Assistant in Medical, came to Brookhaven July 22, 1957.

Elizabeth M. Barnes joined the Laboratory January 3, 1966. She is a Research Services Assistant in Biology.

Karl Brandl, Cabinetmaker A in Plant Engineering, has been here since March 4, 1963.

Kenneth Bubb is a Veterinary Services Assistant in Medical. He started work on September 7, 1948.

Elizabeth J. Edwards came to Brookhaven March 14, 1955 and is an Office Services Assistant in Information.

Helen Forsberg, a Librarian in Information, joined the Laboratory on September 26, 1957.

Harry L. Hankins has been here since March 17, 1947. He is a Hospital Services Assistant in Medical.

Charles F. Hunold, a Master Welder in Central Shops, came to Brookhaven April 8, 1957.

Alice A. Mabry, Administrative Assistant in Personnel, has been with the Laboratory since March 17, 1947.

Casimir Z. Nawrocki is an Experimental Engineer in Instrumentation. He joined the staff on June 16, 1947.

John P. Schneider came to Brookhaven on June 30, 1947. He is Quality Control Supervisor in Supply & Materiel.

John Tremski, a Laboratory Custodian in Plant Engineering, has been here since April 10, 1947.

Olga Vario, Payroll Supervisor, joined the staff on January 6, 1947.

Allan G. Wood, a Technical Associate in Energy and Environment, has been with the Laboratory since October 17, 1949.

Energy Conservation Survey

The reason for the U.S. energy crisis is quite simple; demand for energy is increasing, while supplies of oil and natural gas are diminishing. There presently exists within the continental United States, a vast and virtually untapped energy reserve.

This energy source is non-polluting, in fact, it will actually reduce our current levels of pollution. The locations of these large energy reserves are within the grasp of us all. This yet to be fully realized source of energy is conservation.

BNL embarked upon energy conservation within our facilities in 1973. Since that time we have been able to reduce our yearly energy consumption by about 11%. This reduction was accomplished in a period of expansion, our occupied space increased by 7% and our staff increased by approximately 17%.

This is not enough, we must and can do more.

Energy surveys provide the vehicle by which areas of potential energy savings are revealed. To date completed surveys include; Energy Conservation Program for Chemistry Building 555, Pre-Feasibility Study for a Five-Year Energy Conservation Program for Existing Buildings at BNL, Feasibility Study for Utilization of Heat Rejected from HFBR Building 750, Site Aerial Thermography Energy Loss Survey,

Site Ground Level Thermography Energy Loss Survey, Site Water System Supply and Energy Conservation Survey, and Energy Systems Study for Replacement Boiler, Central Steam Facility Building 610.

BNL has contracted with Pope, Evans and Robbins, Inc. a Consulting Engineering firm to conduct an energy survey and appraisal of the site and buildings. This survey includes investigating and analyzing energy usage, identifying energy savings opportunities, identifying and developing retrofit projects.

The results of this energy survey and appraisal will be used by Pope, Evans and Robbins to develop a comprehensive energy management and conservation program for BNL.

The experience of Pope, Evans and Robbins, Inc. in preparing the ERDA/DOE Site and Building Energy Handbooks, uniquely qualifies them to perform the BNL survey.

The BNL support team to assist in the coordination and collection of data consists of; John Ferrero, a Mechanical Engineer with Plant Engineering's Mechanical Design Group as the BNL Project Engineer, Lou Caiola, Architectural Design Group and Ralph Taylor, Electrical Design Group. —Lewis A. Jacobson

Light Source Moves Ahead

The National Synchrotron Light Source project has taken a significant step towards realization by the selection of an architect-engineer. The A-E firm is actually a combination of two firms, Max O. Urbahn Associates, Inc., architects, and Seelye, Stevenson, Value and Knecht, Inc., engineers, both of New York City.

The Urbahn-Seelye team was chosen for its grasp of the problems, the excellence of the staff that will be assigned to the NLSL project, and the experience of the firms in similar work. Their long and impressive list of projects include the National Accelerator Laboratory at Batavia, Illinois, and such buildings at BNL as Physics, Applied Mathematics, and the Berkner Hall-Cafeteria complex.

The selection was the responsibility of an evaluation panel of DOE area office personnel comprised of Robert N. Drucker, Chairman, Jerold S. Opkins, Joseph F. Frino, and Gregory J. Ogeka. Joan Shands served as legal advisor and Jack Metzler as secretary. They were assisted by four Laboratory advisors; John P. Blewett, Louis A. Harson, H.R. Manning and Jules B. Godel. The choice was difficult in that the five organizations picked from the more than 20 that expressed an interest were highly qualified.

Work has already begun on the preliminary design phase of a tight design and construction schedule that will result in an operating facility before the end of 1981. It is expected that groundbreaking for one of the buildings will occur before the summer of 1978. The light source facility will house two storage rings, one for 700 MeV electrons to produce ultraviolet light, the other for 2.5 GeV electrons to give X-rays. An injector system consisting of a linear accelerator and booster synchrotron provides electrons to both rings. The 77,000 square foot facility will be located in the field at the intersection of Brookhaven Avenue and Technology Street, just south of the Instrumentation Building.

FICA Change for 1978

Effective January 1, 1978, Social Security taxes will be deducted on the first \$17,700 of each wage earner's income at the rate of 6.05%. In 1977, the Social Security base was \$16,500 and the rate of tax was 5.85%. This means the maximum Social Security tax a wage earner pays in 1978 will be \$1,070.85 compared with \$965.25 in 1977, an increase of \$105.60.

The impact of the change at various salary levels is reflected in the table below:

If your annual salary is:	FICA annual tax increase
\$10,000	\$ 20
\$12,000	24
\$14,000	28
\$16,000	32
\$16,500	33
\$17,700 or more	Maximum \$105.60

Any questions, call Barney McAlary, Ext. 2494.

CREF Values

1977

January	\$40.27	February	\$39.30
March	38.73	April	38.73
May	37.96	June	39.91
July	39.91	August	38.56
September	38.65	October	36.91
November	\$38.01		

Selected Reading

- Bull. At. Sci. 33, December 1977**
The international struggle for a law of the sea. R. Hudson. 14-20
- Science, technology and poverty. W. Morehouse and J. Sigurdson. 21-8
- Some questions for the 'world jamboree'. M.S. Wionczek. 29-32
- Peace and security in a changing world. Pughwash Council. 33-9
- Environ. Sci. Technol. 11, December 1977**
OSHA: Protecting worker safety and health with an emphasis on the latter. 1142-7
- Nature 270, December 8, 1977**
China's path ahead. 461
- Science in Hua's China: Policy/cancer/education/astronomy/Taiwan. M.B. Bullock. 462-3

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Bulletin On Vacation

Because of the holidays, the *Bulletin* will not be published on December 30. We will resume our efforts on January 6.

Rambling Around

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

• Did you ever stop to think where the word Xmas comes from? It is from the Greek letter X, transliterated as Kh and representing Greek Khristos, Christ, according to the American Heritage Dictionary. Because it has been used extensively in commercial messages, it is not generally considered acceptable for more formal use. In an article in Newsday, Long Island writer Lynn Patten, suggests that because it denotes no disrespect and "because Christmas has evolved into more than a Christian occasion, 'Xmas' could signify something beyond religion that all Americans can and should share," - namely, love for all mankind and the miracle of birth.

• Widely quoted quote: "I seriously think that trying to establish contact with other beings in the universe is our next great task, and that success would mean the largest step in the evolution of mankind since the development of speech."

—Sebastian von Hoerner, National Radio Astronomy Observatory.

• Women just can't win. After a number of carefree years of wearing seamless stockings, they are now being urged in a recent advertisement to go back to "dark seamed beauties." Let us pray that no one buys them. With all the trials of the modern world, having to worry whether one's seams are straight, is just too much to bear.

• Don't sit in your car with the engine idling any longer than three minutes. If you are caught doing so, you may be fined. The Appellate Division of the State Supreme Court has upheld a Suffolk County ordinance to this effect. The assistant district attorney in charge of environmental prosecutions says that because automobiles are a primary source of pollution in Suffolk County the law will be strictly enforced.

• If you're in the market for a new car, you may want to check the 1978 Gas Mileage for New Car Buyers, available free from the National Energy Information Center, Room 1412, Federal Building, Washington, D.C. 20461. It gives data for both domestic and imported cars.

Arrivals & Departures

Arrivals

Samuel F. Carter.....Nuclear Energy
Jack A. Hillenbrand.....Plant Engrg.
Linda Klosner.....Applied Math.
Yasuaki Nakahara.....Nuclear Energy
Eugene T. Premuzic.....Energy & Env.
Wayne H. Rambo.....Physics
Paul F. Richardson.....Energy & Env.
Robert M. Ritter.....Accelerator
Suresh K. Shenoy.....Nuclear Energy
Lin C. Sinsabaugh.....Accelerator
Kevin G. Stevenson.....Accelerator
Henry W. Wagner.....Plant Engrg.

Departures

Lloyd Chadwick.....Accelerator
Benny H. Rose.....Energy & Env.
Chung-Nan Wan.....Chemistry



THE BNL CHORISTERS, under the direction of John Weeks, presented their fine program of Christmas music on Wednesday at the Cafeteria, the Medical Research Center and the Director's Office. They are following a custom begun several centuries ago. Carols and caroling came into English life in the 14th century and over the years evolved into a tradition, primarily associated with Christmas. Originally a dance song, the carol is also affiliated with ballad, the hymn and the folk song. New carols continue to be written and the tradition is as popular now as it was in the 15th century, apparently, the heyday of the English carol.

—photo by Reben

Basketball

In the opening game of the season the Spuds soundly defeated the Road Runners by a score of 102 to 89. The Spuds were led by Stanley Gilbert with 41 points and Bob Doty with 21 points. The scoring of the Road Runners was more balanced with Clarence Campbell (12), Wayne Smith (26), Erik Frak (20) and Mitch Williams (16) scoring well. Dr. K played so poorly that his team wanted to sue him for malpractice.

The second game of this double-header was a decisive victory for the Dribbles over the Rhinos, 105-94. Jeff Gaffney with 23 points, Dennis Nordstrom with 28 points and Jerry Hobson with 26 points led the attack for the winners. Gary Mosley led the attack for the losers with 41 points.

The double-header on December 8 opened with the Dribbles exterminating the Road Runners, 131 to 108. Jerry Hobson was incredible with 57 points for the Dribbles and Jeff Gaffney contributed 28 points. Gary Hulse (26 points), Eric Frak (20 points) and Fletcher Johnson (23 points) played well for the losers.

The second game on December 8 saw the Spuds, although hobbled by injuries,

come from behind in the closing seconds to defeat the Rhinos 82 to 78. Stanley Gilbert led the Spuds with 32 points. Oak Noell and Jim Shepard played well with 17 and 15 points, respectively. Gary Mosely led the losers with 30 points.

The double-header on December 15 was filled with surprises. In the first game the Road Runners led by Wayne Smith with 33 points and Eric Frak with 26 points soundly defeated the Rhinos whose high scorer was Rich Sapienza with 21 points by a score of 129 to 100. This victory was especially sweet and will, I hope, become a habit. The surprises were not over since the Dribbles, although missing several key players, defeated the Spuds 96 to 94. Jerry Hobson led the Dribbles with an astounding 54 points. High scores for the Spuds were Jimmy Rowehl with 26 points and Stanley Gilbert with 23 points.

Present standings

Team	Won	Lost
Dribbles	3	0
Spuds	2	1
Road Runners	1	2
Rhinos	0	3

The jocks in the Basketball League wish to extend a greeting of happy holidays to everyone at Brookhaven.

—Dr. K.

Bowling

Pink League

Fran Green's 164/173 and Pat Oster's 162/187 made it easy for the Odd Balls to take 7 points and first place. Marge Stoeckel's 178 and Carol Beckner's 175 gave the Pinsplitters 3 points, putting them in second place, only 3 points out of first. The Fiscal Assets remain in third place having taken 5 points from the Lickety Splits.

Sue Vander Kolk had a 167 game and a 463 series and Joyce Wund had a good night with a 404 series. Nice bowling, ladies!

That loud cheering you heard was the result of Marge Stoeckel picking up the 6-7 split.

Red League

The Cosmos took the Dyno-Mites 11-0. D. Klein had a 210 and bowled well. He's up 6 pins in 4 weeks time. The 76'ers won over the Pinball Wizards 8-3. R. Larsen (207/236) had a 636 scratch and is up to a 192 average. J. Petro had a 212 and a 564 scratch series. The Anachems took the Bubble Boys (3 men) 8-3. T. Prach bowled well again (202) and his average is up 8 pins in the last 5 weeks.

The Designers came out on top 7-4 in their match with the Got-A-Hit-Ums. The Freon-Loaders only came away with 3 points against the Blue Jays. The Sandbaggers took 6 and the Old Timers 5 in a

close match. W. Reams, bowling very consistently all year, had a 200 game.

Still a very close Red League finish. Stay tuned for the results.

Purple & White League

The Jokers won all 7 points and moved into first with the Good Guys taking second and the Sea Gulls in 3rd.

Charles Tomesch rolled a 619 scratch (290,222,207) having high game and high series for the men. Carolyn Eterno had high game (186) and high series (482) for the ladies. Other high games were John Usher 214, Bob Jones 207, Joe Mayeski 207, Jim Griffin 203, Sharon Smith 185, Betty Roche 175, Mary Austin 174, Nancy Mayeski 170.

Green League

With two weeks of bowling left in the first half, the Blue Jays find themselves fifteen points ahead of the second place team the Old Timers II. The Blue Jays took eight points from the Freon Loaders with J. Berech having a 200 and H. Haller a 203. The Old Timers II moved into second place as they took eight from the Sparks. The Dyno-Mites dropped to third as they were downed by the Cosmos for eleven. The Trouble Shooters managed eight points from the Pick-Ups. The Got-A-Hit-Ums, with N. Parrinello having a 213/205/576 scratch series, could only manage four points from the Designers. The Pinball Wizards took three from the 76'ers.

Cafeteria

Week Ending December 30, 1977

Tuesday, December 27	
Tomato vegetable soup	
Kielbasa w/sauerkraut	1.15
Grilled ham steak w/1 veg.	1.30
Hot deli - Pastrami	
Wednesday, December 28	
Beef barley soup	
Tuna noodle casserole	1.10
Bacon & veg. quiche w/glazed	
Belgian carrots	1.20
Hot deli - Corned beef	
Thursday, December 29	
Chicken noodle soup	
Sweet & sour pork on rice	1.30
Salisbury steak w/1 veg.	1.25
Hot deli - Baked Virginia ham	
Friday, December 30	
New England clam chowder	
Broiled filet w/1 veg.	1.15
Roast sirloin of beef w/1 veg.	1.35
Hot deli - Meatballs & peppers	

Christmas Hams

Smoked hams (bone-in) are now available from the Cafeteria. Give yourself a holiday and leave the cooking to Saga Foods. Call Ext. 3541. Price \$1.59 per pound.

Volleyball

Mixed League (Division A)

On December 19, No Names over LeMufs 18-16, 15-8, 15-11; Popovers over the Nads 15-10, 15-12, 15-11; Lookin' Good over Assorted DO-E-Nuts 15-6, 15-1, 15-5.

No Names won the playoff game for the first quarter over Lookin' Good 17-15, 15-7.

Standings:

	Won	Lost
Lookin' Good	6	0
No Names	5	1
LeMufs	3	3
Popovers	3	3
Assorted DO-E-Nuts	1	5
Nads	1	5

Mixed League (Division B)

Oceanography over Leftovers 9-15, 15-9, 15-5; Nuts & Bolts over Diamonds 15-13, 11-15, 15-3; Cowturkey over Riffraff 15-7, 12-15, 15-9.

Standings:

	Won	Lost
Nuts & Bolts	5	1
Diamonds	3	3
Leftovers	3	3
Oceanography	3	3
Cowturkey	2	4
Riffraff	2	4



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. 2874 or 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

443. SECRETARY - Requires excellent secretarial, communication, and organizational skills, and demonstrated knowledge of office procedures. Division secretary position. Department of Energy and Environment.

444. SECRETARY - Requires good communication skills, excellent typing ability. Involves general office duties and technical typing. Department of Nuclear Energy.

445. SECRETARY - Requires excellent typing and secretarial skills. Department of Energy and Environment.

446. OFFICE SERVICES ASSISTANT - Requires good typing skills. Involves general office duties. Department of Applied Mathematics.

447. GENERAL COMMUNICATIONS CLERK - Staff Services Division.

448. LABORATORY CUSTODIAN - Plant Engineering Division.

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

449. MECHANICAL ENGINEER - Requires experience in general machine design, including automated precision machinery for heavy loads. Interest and/or exposure to magnet design, cryogenics, and particle detectors desirable. Physics Department.

450. RADIOCHEMISTRY ASSOCIATE - Requires a BS/MS plus experience in radiochemical analysis of water samples, ion exchange, and solvent extraction. Backgrounds in counting techniques including alpha, beta, gamma spectrometry and analytical methods including atomic absorption, auto-analyzer and gas chromatography are highly desirable. Department of Nuclear Energy.

451. MATERIALS SCIENCE ASSOCIATE - Requires MS or equivalent in materials science. Background in materials testing and characterization procedures as they relate to waste forms used for immobilization of low level radioactive wastes. Requires good written ability. Knowledge in thermal stability measurement techniques is desirable. Department of Nuclear Energy.

452. CHEMICAL/NUCLEAR ENGINEER (three positions) - All require BS/MS or its equivalent in chemical/nuclear engineering. The first position requires background in characterizing solidification processes of reactor waste and experience in waste management; the second position requires experience in the operation/design of radwaste systems relating to safety; the third position requires experience with polymer concrete materials in relation to radwaste. All require excellent writing ability. Department of Nuclear Energy.

453. ELECTRONICS TECHNICIAN - AAS or equivalent in electronic technology with a good knowledge of both analog and digital circuits. Position involves construction, modification and testing. Wire-wrap and p.c. layout experience desirable. Accelerator Department.

454. ELECTRONICS TECHNICIAN - AAS or equivalent. Requires experience in construction, testing, and troubleshooting of pulse and analog circuits. Familiarity with high voltage and high power dc power supplies desirable. Accelerator Department.

455. ELECTRONICS TECHNICIAN - AAS or equivalent with experience in construction and troubleshooting of prototype analog and digital equipment. Bench and field work. Accelerator Department.

456. RADIOACTIVE MATERIALS TECHNICIAN - AAS degree or equivalent in chemical technology. Experience in the operation and repair of mechanical equipment. Medical Department.

Autos & Auto Supplies

76 CAMARO - Type LT, 350 4BRL, 4 spd, excel, lots of extras, 29,000 mi, best offer over \$4,200. 589-0643 after 6 p.m.

SNOW TIRES - HR-78-14 radial. \$50. 589-0643 after 6 p.m.

73 PONTIAC - 2 dr, auto, low mi. \$1000 firm. 821-1575 after 6 p.m.

68 FORD - 3/4 ton pickup F250, 8' bed, 4 wheel dr, heavy duty springs, 48,000 mi. \$1600. 728-2553.

HONDA - 72, 350 cc, new clutch, fast. \$600. Mark, 878-1790.

74 YAMAHA - 350, torque induction, new tires & battery. \$500. Ed, Ext. 3284.

64 CHEVY - Sta wagon, reliable. \$249.95. Murdock, Ext. 4851.

70 FORD FAIRLANE - a/c, excel running cond, \$800; 72 Opel, excel running cond, \$1000. 281-6130.

67 FORD - Country sedan wagon, 289 eng. \$200 or best offer. 727-5912.

67 MERCEDES - 250S, 4 spd, dk blue, excel cond & gas mi. 473-7667.

68 CHEVY - Belaire, good cond. \$390. Ext. 2060.

72 PINTO PARTS - Body, eng, trans & misc. Larry, 751-2149.

66 CHRYSLER - New Yorker, gd cond. \$300 or best offer. Ed, 345-4273.

FUSE KIT - Opel, Mercedes, Benz, etc, 60¢/kit; VW tune up kit, \$2. Ext. 3609.

SNOW TIRES - (2) Sears Dynaglas C78-13, almost new, bal & mntd on Toyota rims. \$50. George, Ext. 2296.

73 VOLVO - New radials. \$2,500. Jean Pultz, 477-0148.

68 PLYMOUTH - Fury wagon, auto, ps, ac, runs well. \$400. T. Morris, 744-5096.

TIRES - (4) Dunlop steel belted radials, 165SR-14, approx 1,000 mi old. \$100. Michael Iarocci, 289-3283.

64 DODGE DART - Needs some work, excel running cond, 6 cyl, auto. \$125. 399-1553.

70 AMC AMBASSADOR SS - 2 dr, ps/pb/ac, running cond. \$200. 732-8066.

72 SUZUKI T-500 - Good mechanical cond. \$450 firm. D. McCutcheon, Ext. 4289.

69 FORD GALAXIE - 4 dr, V8, ps/pb/ac, must sell. \$300. Steve, Ext. 3822, 929-6527.

65 CHEVROLET BELAIRE - Needs some work. \$150. Mike, Ext. 3658.

71 YAMAHA - 350 cc, tuned, good cond. Ext. 3688, 363-7032.

70 CHRYSLER - Ac/pb/ps/pw, good tires & snows, good cond in & out. Ext. 3319, 751-7140.

70 FORD TORINO - Low mi, 2 dr hardtop, ps/pdb, good cond. \$750. 589-0208 after 6 p.m.

72 AUDI - 100 LS, 45,000 mi, recent engine overhaul, leaving country Jan. 1. Best offer \$1,250. Ext. 4320, 286-9398.

70 TOYOTA - Corona wagon, best offer over \$350. Ext. 4320, 286-9398.

WHEELS - 14" Ford, \$5/pair. Bob, Ext. 4636, 289-0357.

Boats & Marine Supplies

ICEBOAT - Shingle type w/sails, needs mast & boom to complete, asking \$75. Joe, Ext. 4069.

Miscellaneous

HOCKEY GAME - Stanley Cup, \$5; 5 qt cast iron dutch oven, new, \$7; Hamilton Beach Baconer, new, \$7; storage box for mounting on transmission hump of sport car, black vinyl w/keys, \$8; bedroll for beginner or not too serious camper, gd cond. Bill, Ext. 3992.

ELEC AIR HOCKEY - 48" x 24", gd cond, \$15; buckle ski boots, size 10, gd cond, \$15; wooden skis, 175CM, \$10; lace boots, size 11 1/2, \$5. 286-8256 after 5 p.m.

EXTENSION LADDER - Wood, extends to 24 ft, metal supports and pulley. \$35 firm. Also woodwork bench with vise att, best offer. 286-1050 after 5:30 p.m.

SKI BOOTS - Size 7N, Dolomite, like new. \$10. Stehn, Ext. 2901, 473-1168.

OIL BURNER GUN - Used, working cond. \$25. Frank, Ext. 4581, 588-3565.

GITAR - Fender 12 string acoustic with hard case, orig price \$225, asking \$120. W.L. Keith, Ext. 2825.

KIT TABLE - Wrought iron w/4 chairs, excel cond. \$150. 281-6130 eves.

BIKES - Girl's, 20", \$15; 24", \$20; good cond. 744-5009.

DOOR - Ext. 30" w/6 small windows; also 6' x 5' Colonial bay window. Ext. 3922.

GITAR - Harmony folk, case & strap. \$50. 472-1473.

POOL FILTER - & ladder, used 2 mos, \$135; above grnd pool 15' x 4' free if you dismantle, filter large enough for larger pool. 821-1317 after 5 p.m.

KARATE OUTFITS - One med, one small, new, worth \$25, sell \$12 ea. Joe, Ext. 4069.

OVEN - Micro wave, excel, \$400; Typro Photo Type composer w/desk, best offer; one Judo uniform, new, \$20. 281-6130 eves.

AIR HOCKEY - Colico power jet, \$8; skis w/bindings, 170CM, \$5; buckle boots, new, size 10, \$5; and other boots, \$2. 475-1844.

F/P SCREEN - Brass, 31" high, 38" long. \$10. Charlie, Ext. 4526.

SONY TRINITRON - 17" color, perf cond. \$350. John, Ext. 2501.

FREE - Small dog, trained, affectionate, good with children. Palmer, Ext. 3780, 744-2836.

SKI BOOTS - Size 5 1/2. \$15. Ben, Ext. 4333.

GARRARD - Record player, \$20; old radio, all new tubes, needs some repair, \$15; tape recorder, 4 tk, needs some repair, \$50. Ben, Ext. 4333.

SHIRTS - Men's dress, white, new size 16-32 (Arrow), 15 1/2-32 (Manhattan). \$3.50 ea. Also men's ties, new. Gordon, Ext. 3823.

OAK TABLE - Round, & 4 Bentwood chairs. \$150/set. Various carpets. 286-9398.

DKROOM EQUIP - Complete, Vivitar enlarger w/ filters, bottles, etc, used 3 mos. \$125. Palmer, 744-2836, Ext. 3780.

DINING RM SET - French Provincial table, 4 chairs, 2 leaves, pads, excel cond. \$200. 666-3136.

FIGURE SKATES - Black, size 8, imported, hardened & tempered blades, never worn. \$8. T. Morris, 744-5096 after 3.

RADIO CASSETTE - Am/fm, model beta 3030, 1977, like new. \$30. Phil, 345-3110 after 7 p.m.

PINSCHEER DOG - Miniature, brown spayed female, affectionate & cute. \$80. Palmer, 744-2836.

KIT CHINA CLOSET - White metal with glass sliding doors. 653-4647.

CAR OWNER - & shop manuals bought & sold. Mike, 281-3460.

ENCYCLOPEDIAS - Set, old. \$20. 281-3460.

ORGAN - Magnus chord, good cond. \$25. 589-0643.

CORNWALL ELEC TRAY - \$10. Ext. 3327.

JBL 100 SPEAKER SYS - (2), hardly used, superlative sound, mint cond. \$375. Ext. 4701, 271-2877.

ADDING MACHINES - Elec paper rcd, good cond. \$25. Bob, Ext. 4636, 289-0357.

SKIS - Wooden w/steel edges, 198 cm, salomon step-in bindings. \$25. Jack, Ext. 2485.

FURNITURE - Copper color breakfast corner nook w/dark brown wood table, 3 mo old, excel cond. \$350. 732-8066.

WASHING MACHINE - GE, gold, 2 yr old, very good cond, \$150; clothes dryer, 20 lb cap, 1 yr old; very good cond. \$200. 732-8066.

SOFA - 90 in. contemp loose pillow sofa, fair cond, white, blue & green. Best offer. HR3-2826 after 4 p.m.

PUPPIES - Yorkshire terrier, AKC reg, fluffy toys, great temperament, sound. From \$250. 475-2687 after 6 p.m.

HO TRAIN SET - 4 x 8 complete assembly, 3 locos, pass & freight, 3 transformers. 924-4063, 281-3299.

TRUMPET - 1 yr old, Olds Ambassador w/case, excel cond. \$100. 864-2615.

FIREPLACE SCREEN - Brass trim, black iron draw screen, 38" wide x 31 1/4" high, like new. \$25 cost \$60 new. 289-6490.

ELEC MOTOR - 5 hp, 3 phase by Ajax, modern compact constr, alum housing. \$65. Ext. 4240, 286-0295.

ENGLISH SPRINGER SPANIEL - Male; black & white, 5 mo, housebroken. \$50. 289-8212.

FURNITURE - Hi riser w/mattresses, \$50; coffee table, lamp tables, \$5 ea; Sealy twin inner spring, \$15. 286-8890 after 6 p.m.

SHOT GUN - 12 gauge, 30", over/under, full & full, like new. \$235. Ext. 4122, 363-2130.

BICYCLE - Woman's or girl's 3 spd Raleigh, very good cond, excel Christmas gift. \$35. Ext. 3583.

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

N SHIRLEY - 3 bdrm, den ac/ww carpeting, s/s, in-ground pool, 1/2 acre. Dick, 4313, 929-4551.

4 BDRM HOUSE - Hd wood flrs, heated porch, near schools/shops/water, appl, quiet street, low taxes. \$36,000. Vis, Ext. 3513/3512, 878-4889.

SHIRLEY - 3 bdrm, fully furn, fin bsmt, ww carpet, hot water heat, storm windows. Must sell, will hold mortgage. \$25,000. 281-5328.

MANORVILLE - 4 bdrm Cape Cod, 2 bath, fp/ww carpet, appl, fenced, garage, above ground pool, s/s, 2 acres. 878-1895.

MILLER PLACE - 3 bdrm L ranch, 2 bath, fp, 1/2 acre, ideal for professional or doctor, wooded & landscaped. \$49,990. Ext. 2913.

S SETAUKET - Strathmore "Framingham," 5 bdrm, 3 bath, ac/ww carpet, underground sprinkling sys, extras. \$55,000. 698-1785 after 6 p.m. and wkends.

MILLER PLACE - 4 bdrm colonial, fp, 1 1/2 both, 2 car garage, dining rm, fam rm, landscaped/wooded, 1/2 acre. \$58,500. 331-1798.

MASTIC BEACH - 6 rms, 4 yr old house, full bsmt, fenced, 80 x 125. \$28,500. 281-5498.

For Rent

VERMONT CHALET - Furn, fp, hiking, skiing at Bromley, Stratton, Killington, antiq. Rates for wk/wkend or share season. 757-5599 after 4 p.m.

SHOREHAM - Custoc 7 rm ranch, fin bsmt & office, fp, appl, 1 acre, priv beach. \$400/mo. 744-7171.

COLONIAL - 4 bdrm, 2 1/2 baths, fp, garage, bsmt, 3/4 acre, many extras. 924-7671.

PATCHOGUE - Apt in priv home, convenient to shopping/transportation. Ext. 4786.

BROOKHAVEN HAMLET - 3 bdrm ranch, new house. Ext. 4676.

BROOKHAVEN HAMLET - 3 bdrm, fin bsmt, fp, attached garage, new appl, recently insulated, near marina, landscaped. \$375/mo. Ext. 3338 after 6 p.m.

CALVERTON - 1 bdrm apt w/priv entrance, all util. \$200/mo, security. Avail Jan 1st. Jay, Ext. 2022, 727-6582 after 5 p.m.

Wanted

MICROSCOPE - For serious student, good cond, reasonable. Sheldon Katz, Ext. 3354, 744-7861.

CASH - Paid for 13" Toyota rims (4 lug). Pete, Ext. 3310, 757-3321.

TYPING - Lite, sewing, & babysitting Medford area. 475-0144 after 6 p.m.

RALLEY WHEEL - For 15" Chevy or GMC truck. Richie, Ext. 4254.

PIANO - Good cond. Nancy, 821-0250.

RIMS - 14" for Nova. Kathi, Ext. 2907, 589-8410 eves.

Car Pool

RIDE - M-F to Middle Island from BNL at 5 or 6 p.m., will share exp. 924-0529.

Services

CHINESE COOKING LESSONS - Group forming, call Steve or Francesca for details. 473-0586 after 6 p.m.

FURN STRIPPING - Varnish & paint removed, chairs caned. 924-8547.

SELL & SERVICE - All CB & TV equipment. Bob, 698-1487.

TUTOR - Priv tutor in English for non-native speakers. Qualified English teacher, my home or BNL. 286-8097.

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 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, 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).