BROOKHAVEN BULLETIN
Vol. 38 - No. 35 September 7, 1984
BROOKHAVEN NATIONAL LABORATORY

Administrative Action:
DAS Acquires New Division

The Atomic & Applied Physics Group in the Physics Department became a new Division of the Energy Science Programs of DAS on June 1. Keith Jones continues as head of the division, and he and his colleagues retain their office and laboratory space in Bldg. 901. The 3.5-MV Van de Graaff accelerator which is used by the division was transferred from Physics to DAS.

"The move was a natural evolution of the direction in which our group's research has been heading," explains Jones. "The broad research we do now fits better into DAS's very diversified energy science programs than into the more narrowly focused programs of the Physics Department. It will be easier to do collaborative research with others who have similar interests and whose work dovetails with ours, and carry out our multidisciplinary approach." "After two months, things are going well from the administrative point of view," says Allen Goland, head of the Energy Science Programs. The new Division of Atomic & Applied Physics continues to be supported primarily by the Chemical Sciences Division of the DOE Office of Basic Energy Sciences.

Recently, the new division was awarded a National Institutes of Health grant and received funds from the National Science Foundation through the University of Chicago for experiments in biomedical and geochemical sciences using an x-ray microprobe being developed at the NSLS. Individual and university scientists will join Jones and his group in the use of this probe. As well, an NSLS atomic physics beam line is also being constructed by the division. It will collaborate with the SUNY/Stony Brook Department of Material Sciences & Engineering and industrial scientists in the use of the Van de Graaff and an ion implanter for ion-beam modification and analysis of materials.

Roger Stoutenburgh

MIT students Chuck Swain, Malcolm Fairbairn and Paul Shin look on with BNL's C.R. Krishna at apparatus designed to measure the atomization of coal-water slurries.

Alex Reben

Bake-Out At the Light Source

Aluminum foil has moved from the kitchen to the laboratory. Although it still may be the best method of storing left-over food, scientists at the National Synchrotron Light Source have offered the foil a more noble calling: helping to create ultra-high vacuum systems in the X-ray and Vacuum Ultraviolet storage rings and experimental beam lines.

At the NSLS, this cooking technique, known as "baking-out," requires about 750 feet of heavy duty aluminum foil every month. To assist the vacuum pumps in producing an ultra high vaccum, ring and beam line components are also heated to temperatures above 150 degrees Celsius. This "bake-out" removes gases that are weakly bonded to the surfaces, in much the same way a self-cleaning oven works. With this lower pressure, the lifetime of the electron beam is extended, and there is less possibility of contamination of optical equipment used to focus the photon beam.

The aluminum foil is pressed into service not only because it is easy to handle and helps keep the parts clean, but also because, unlike stainless steel, it is a good conductor. Foil helps to distribute the heat evenly, while it also insulates by trapping air and reflecting heat that would otherwise be lost.

Practice School On Practical Problems

For the past six weeks, twelve MIT graduate students have been at BNL working with scientists on group projects designed to enhance their classroom experiences. They are part of the school's unique Graduate School of Chemical Engineering Practice.

The Practice School program is held at various research laboratories and industrial institutions around the country where students are provided with practical engineering problems, assigned by the host scientists. One of this year's projects at BNL is aimed at the development of an alternative energy source to fuel oil.

Students Chuck Swain, Malcolm Fairbairn and Paul Shin have been working on a project aimed at testing coal to be used in the long run as a substitute for fuel oil. Their work has been centered around understanding how surfactants, which are chemical additives, alter the atomization of coal-water slurries, or mixtures. Atomization, the breakup of a stream of liquid into a spray of droplets, is a very important step in the burning of fuel oils, in that it makes the fuel easily combustible.

When added to the coal-water slurries, the surfactants act as both stabilizing agents to keep the coal particles in suspension and as fluidizing agents to decrease the viscosity of the solution. In addition, they improve the solution's wettability, which could help to increase the amount of coal used.

One of the attractive aspects of the research being done with coal-water slurries is that they have properties like fuel oil, and that with minimal equipment changes and capital investment, the substitution could be made rather smoothly.

Using a laser beam to measure the distribution of the atomized droplets, along with a computer and printer, the group is studying the atomization of the coal-water mixture. They hope to minimize the amount of larger droplets, because they have poor heat and mass transfer characteristics, relating directly to the efficiency of the combustion process. At the same time, a small percentage of large droplets is necessary to maintain combustion, and this balance is actively sought.

The MIT students are working under the tutelage of BNL's C.R. Krishna and Richard Shapiro, in the Fuels, Catalysis, & Energy Utilization Division, DAS. The BNL scientists have been working with coal-water slurries at BNL for the past five years. Says Krishna: "The students give us a chance to test a hypothesis — how certain additives affect the atomization of certain coal water slurries — and they are very capable collaborators." — Maurice A. DuBois

Cooperating on Fuel Conversion

The Fuels, Catalysis and Energy Utilization Division of the Department of Applied Science, has a long standing interest and expertise in many aspects of coal-water slurry fuels. These fuels are made of coal in slurry form, a form which can be handled and burned in equipment designed for petroleum fuel.

Last month, as part of its program, the division hosted a workshop, organized by the U.S. Agency for International Development (AID), to determine the feasibility of using the abundant coal resources of the Philippines to replace its oil imports. The project at hand was the possible conversion of a major power station in Manila to coal-water slurry. At BNL the program is being managed by Thomas Butcher.

Representatives from AID and BNL were joined by Burns and Roe, Inc., a U.S. engineering firm planning construction and boiler conversion; Development Sciences, Inc., a U.S. consulting company coordinating the logistics of technology transfer; the U.S. Geological Survey, evaluating the coal resources; and Philippine participants from the Economic Development Foundation, Inc., the National Power Corporation, Marinduque Minerals and Mining Corporation, the University of the Philippines, the Development Bank of the Philippines, and the First Philippine Industrial Corporation.

Dial 4707 And Ask for John . . .

"John who?" asks the person who answers.

"John the guy who works on the computer," you reply.

"Which one?" you are asked.

"How many are there?" you answer the question with a question.

"Five plus Herbert John, but you can call him Herb."

"Is there anyone there not named John?" you demand to know.

"Yes. Bryan, Susila, Kim, and Richard, but you can call him Rich."

"What's your name?" you inquire.

"John."

"Are you the person I want to talk to?"

Variations of this conversation occur daily over the phone and in person in two ajoining rooms on the second floor of the NSLS. Occupying the 30 foot by 16 foot Ready Room and the Computer Room itself, five out of nine computer jocks have the first name John, and a sixth has John as his middle name. They share three desks and three computer terminals as they write programs which control and monitor NSLS operations — and confuse those seeking to speak with John.

Knowing the last name or title of the John to whom you wish to speak helps. In alphabetical order, they are: Co-op Student John Joseph Bopp, Jr.; Computer Analyst John Joseph Dabrowski; Technical Specialist John Paul Flannigan; Senior Project Engineer John Donald Smith; and Student Assistant John Herbert Sondericker III; plus Senior Technical Associate Herbert John Langenbach.

The first name dilemma began six years ago when Physicist Brian Culwick and Smith first formed the NSLS computer group with Flannigan. Dabrowski joined the group last February, Bopp was added in March, and Sondericker became a member in May. "It wasn't hard to learn people's names or to remember them — most of the time," says Sondericker.

Smith mentions that they have no problem maintaining their individual identities and avoiding a group mentality. "We are very different people," explains Flannigan. "We think differently and do different things."

None of them has considered changing his name. "I'm used to my name," says Dabrowski, "and it doesn't bother me that the others have the same first name." Each, however, was named John for a different reason.

Dabrowski was named in honor of John Joseph Pershing, the U.S. Army general for whom Dabrowski's father served as an aide and interpreter during World War I. Bopp was named after his father, and Sondericker is the third John Herbert on the paternal side of his family. Smith has his mother's father's first name, and Flannigan has the same first name as his father, but a different middle name.

"My mother was farsighted," claims Langenbach, "She was going to name me John Herbert, but instead named me Herbert John because she didn't like the thought of people calling me Johnny."

"I feel unique not being named John," adds Susila Ramamoorthy, another computer analyst in the group, "but then John is not a common name in India, where I was born, especially not for girls."

No one is called Johnny, but the five hail each other by their last names or nicknames. John Flannigan is known as "little John," John Bopp answers to "Be Bop," and John Smith is identified as "The Grand Old Man."

Their co-workers find all of them friendly and helpful. "You just call 'John' and one of them will answer," explains Regina Wilson, a summer student from Adelphi University.

However, answering the phone has been and continues to be amusing. "When I started working here, if I picked up the phone and someone asked, 'Is John there,' I'd answer 'no' because I knew it wasn't for me," jokes Bopp. "Most of the calls are for Smith or Flannigan anyway."

"We've never tried to confuse people on the phone by pretending to be one another," comments Dabrowski. "We've never had to be that devious because we've confused them by being ourselves." —Marsha Belford

Alex Reben

From left to right: John Sondericker, John Bopp, John Dabrowski, H. John Langenbach, John Smith and John Flannigan.

Roger Stoutenburgh

The Second IMACS Symposium on Energy Modeling and Simulation was held at the Lab last week. It brought together 150 participants from around the world to discuss "Models in the Decisionmaking Process: Planning under Uncertainty." In his welcoming address, Andy Kydes, a group leader in energy model development at DAS, and conference chairman, said that a major goal of the conference was to "help bridge the gap between the technical community and the decision making community and to encourage communication between the two groups on a regular basis." One of the ways to do this, he says, is to make the decision makers aware of the developments in modeling and risk analysis which can give them the best available information on which to base a decision. Rénè Males, Vice President, Energy Analysis and Environment Division of the Electric Power Research Institute (EPRI), devoted his keynote address on the second day of the conference to just what kind of answers utilities should be seeking. He concluded that utilities could not hope to identify a single "right" course, but only the courses to be avoided. He called this the "rational" view of decision making. The conference was sponsored by the U. S. Department of Energy, EPRI, the Gas Research Institute and the International Association for Mathematics and Computers in Simulation (IMACS). Above, some participants talk during a break in the proceedings. From left: Kenneth Wigley, Dept. of Energy, England; H. Don Burbank, Northeast Utilities; Rénè Males, Electric Power Research Institute; and conference chairman, Andy Kydes, BNL.

Arrivals & Departures

Arrivals

Maged S. Atiya	Physics
Anne-Marie Fauchet	NSLS
Charles N. Flagg	DAS
Barbara H. Fleck	DAS
Alan I. Goldman	Physics
Joseph A. Harder	Instr.
Ulrich W. Heinz	Physics
Khandker A. Muttalib	Physics
Paul J. Vincent	Physics

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:

Harold Alexandersen	Accelerator
Anu Banerjee	Staff Svcs.
Sally Bennett	DNE
David Edwards, Jr.	Chemistry
Linda A. Fallat	Tech. Info.
Richard D. Gilbert	Chemistry
Robert F. Lambiase	Accelerator
Puliyur V. Madhavan	Chemistry
Vijay Murgai	Physics
Louis J. Nicholosi	DNE
Irving J. Polk	Accelerator
George W. Scott	Plant Eng.
Elvira E. Sears	Dir. Ofc.
Hideki Yoshizawa	Physics

Mort Rosen

Associate Director Vincent O'Leary cuts the ribbon, at the opening of the new Plant Engineering stockroom, and storeskeepers Clinton Coone and Kay Sneed are in business. With O'Leary are Bruce Medaris, manager of the Maintenance Management Division; industrial engineer Joe Medina; and Maintenance Management coordinator Lew Jacobson.

P.E. Opens Own Stockroom

Something had to be done, the Plant Engineering Division figured.

Because of a money squeeze in the early 1970's, their own stockroom had been closed, and workers had to go to as many as three different warehouses at Supply & Materiel to obtain equipment. They also had to go through a cumbersome paperwork system — a process that often took as long as 45 minutes. As a result, a valuable resource — time, which translates into money — was being sacrificed. .

But when Associate Director Vincent O'Leary cut the ribbon to officially open the division's own stockroom on Tuesday, it marked the beginning of a new direction. The paperwork was replaced by the IPAP computer system, and long lines to obtain equipment were replaced by a simpler process for clerks to retrieve them from a more efficiently laid-out stockroom.

"The whole routine was a bit cumbersome," says Bruce Medaris, manager of the Maintenance Management Division, "and this will allow us to get to almost fully automated materials transactions." Costs will also be minimized, and he estimates that the stockroom will pay for itself in about three and a half years.

Plans for the stockroom were in the works for almost two years, under BNL's Warehouse Master Plan. After consultants drew up a building layout, engineer Joe Medina developed a system that arranges the items by frequency of issue and size. The stockroom was constructed by moving one wing of the old Photography building to the area between two wings of the new site, Building 452.

George Dioguardo, Supply & Materiel Division, has been promoted to supervisor of stockroom operations.

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BERNICE PETERSEN, Editor
MONA S. ROWE, Associate Editor
ANITA COHEN, Reporter
MARSHA BELFORD, Reporter

35 BROOKHAVEN AVE., UPTON, N.Y. 11973
Telephone (516)282-2345

Phone Facts

Intrastate information requests are now billed back at 40 cents each by the New York Telephone Company. Long distance information requests are billed back at 50 cents each by AT&T. In a one-month period, BNL was billed over $600 for making such requests. To keep these costs down, please make note of your most frequently called numbers and use the directories.

Cafeteria Menu

Week ending September 14

Monday, September 10

Lentil soup	(cup)	.65
	(bowl)	.85
Roast turkey w/giblet gravy and stuffing		2.05
Veal Française & 1 veg.		2.10
Hot Deli: Clam boat		2.00

Tuesday, September 11

Beef noodle	(cup)	.65
	(bowl)	.85
Stuffed pork chops w/apple sauce & 1 veg.		2.05
Pot roast of beef & 1 veg.		2.10
Hot Deli: Barbecue chicken breast	(bread)	2.15
	(roll)	2.30

Wednesday, September 12

Turkey noodle	(cup)	.65
	(bowl)	.85
Quiche Lorraine & 1 veg.		195
Spaghetti w/Italian sausage		2.15
Hot Deli: Knockwurst & kraut	(bread)	1.95
	(roll)	2.15

Thursday, September 13

Chicken rice Creole	(cup)	.65
	(bowl)	.85
Scalloped ham & potato w/1 veg.		1.95
Eggplant parmigiana & 1 veg.		2.05
Hot Deli: Top round of beef	(bread)	2.00
	(roll)	2.15

Top your own chili bar:
Chili & cheese, onions, green peppers, green onions, nachos, sour cream and hot peppers

Friday, September 14

Fish chowder	(cup)	.65
	(bowl)	.85
Chinese pepper steak over rice		2.00
Shrimp & fries		2.15
Hot Deli: Veal patty parmigiana	(bread)	2.00
	(roll)	2.15

PSI News

The season's first meeting of Professional Secretaries International (PSI) will be held on September 10 at 6 p.m. in Room C, Berkner Hall.

The program entitled "Future Focus - PSI," will feature a slide presentation by Patricia Durcan, American Physical Review, on the PSI international meeting held this summer in Canada. Also, committee chairmen and officers will discuss the Upton chapter's goals and plans for the coming year.

For further information, call Juanita Heyliger, Ext. 3490, or Audrey Blake, Ext. 5382.

Coming Up

Theoretical physicist William Marciano will give the first Brookhaven Lecture of the season on Wednesday, September 19 at 4:30 p.m. in Berkner Hall. Mark your calendar. Details next week.

BERA News

Sweet Honey In The Rock

And now for something completely different! An all-women vocal group whose magnificent voices are the only instruments they use in a concert that mixes jazz, gospel, blues, rhythm and blues, African roots songs and "field hollers." Sweet Honey in the Rock takes its name from an old spiritual about a land so sweet that honey flows from the rocks. This unique quintet, based in Washington, D.C., sings about being black, about being women, and of problems common to all humanity. They are coming to Berkner Hall, September 15 at 8 p.m. Tickets are $10 and are on sale at the BERA Sales Office, through Bldg. representatives (see last week's Bulletin) and may be purchased at the door the night of the concert.

Cooking Exchange

The 1984-85 season of the BNL International Cooking Exchange will open with a Mediterranean Feast. The meeting will be held on Wednesday, September 12 between 12:30 and 2:30 p.m. at the Recreation Building.

The Cooking Exchange is open to all on-site employees and their immediate family members. Meetings are held on the second and fourth Wednesday of each month from September through May. At each meeting, five or six recipes are prepared by volunteer demonstrators. At the conclusion of the demonstrations, the dishes are sampled by all those attending the meeting. A charge of $1 per person is used to reimburse demonstrators for the cost of recipe ingredients. Babysitting is provided at 50¢ for each child. Exchange chairperson, Dee Polychronakos will answer any questions. Call her on 744-3578.

Note: For those who have not made reservations for the Culinary Institute of America tour and luncheon on September 27, call the Recreation Office, Ext. 2873, to be placed on the waiting list. There may be some cancellations.

BNL travelers in Italy are reminded of home when they see this sign. Meyer Steinberg and Bernard Manowitz spotted it in Rome this summer. It has also been sighted in Milan. The BNL stands for Banca Nazionale del Lavoro, unfortunately no relation to the Laboratory.

Singles Club

The BNL Singles Club will hold its regular monthly meeting on Tuesday, September 11, in Room C, Berkner Hall at 5:10 p.m. Meet the new board members and learn of the activities planned for the rest of the year.

Bowling

The 1984/85 bowling season will begin on Tuesday, September 11 at 6 p.m. for the Port Jefferson leagues, and on Thursday, September 13 at 6:30 p.m. for the mixed leagues in Shirley.

Met Opera Tickets

Ticket sales will begin at the BERA Sales Office in Berkner Hall on Tuesday, September 11 at 8:00 a.m. On-site employees may purchase as many pairs of tickets as desired. All sales will be final; no refunds or exchanges.

Copies of the schedule, including a listing of the Family Circle seat numbers, are now available at the Sales Office.

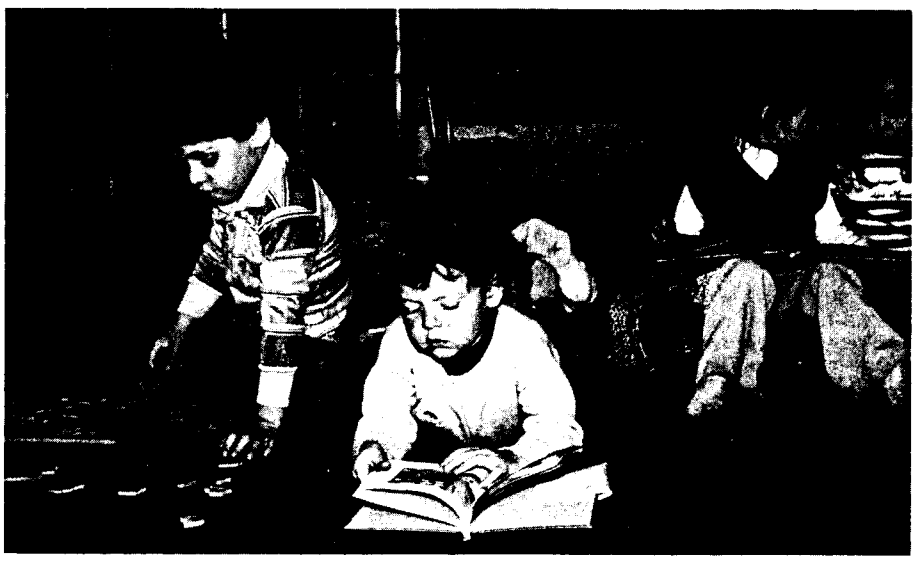
Ticket Prices
Tuesday and Friday Evenings - $13.50
Saturday Evenings - $14.50

September		
	Tue. 25	Les Contes d'Hoffmann
	Fri. 28	Les Contes d'Hoffmann
October		
	Sat. 13	Lohengrin
	Tue. 16	Eugene Onegin
	Fri. 19	Rigoletto
	Tue. 23	La Clemenza di Tito
November		
	Tue. 6	Manon Lescaut
	Sat. 17	Il Barbiere di Siviglia
	Tue. 20	Il Barbiere di Siviglia
	Fri. 30	Manon Lescaut
December		
	Tue. 11	Elektra
	Fri. 14	Cosi fan tutte
	Sat. 15	Simon Boccanegra
	Tue. 18	Simon Boccanegra
	Fri. 28	Aida
	Sat. 29	Cosi fan tutte
January		
	Tue. 8	Cosi fan tutte
	Sat. 12	Ariadne auf Naxos
	Fri. 18	Ariadne auf Naxos
	Tue. 22	Wozzeck
	Sat. 26	Wozzeck
February		
	Sat. 9	Porgy and Bess
	Tue. 12	Porgy and Bess
	Fri. 15	Porgy and Bess
March		
	Sat. 2	Die Meistersinger
	Tue. 12	Die Meistersinger
	Sat. 16	Ernani
	Tue. 19	Ernani
April		
	Tue. 2	Tosca
	Tue. 16	Lulu
	Fri. 19	Lulu

Volleyball

A captain's meeting for both the Mixed and Open Leagues will be held on September 12 at noon in Room C, Berkner Hall. All captains from last year, or a representative of each team, should be present. Any questions, call Lois Marascia, Ext. 4904.

Nursery School Has Openings



The Upton Nursery School still has a few openings for three and four year olds in its fall classes which begin on September 10.

The on-site school has two accredited and experienced teachers and is run on a cooperative basis. Registration is open to any three or four year old child of a BNL employee, and the classes reflect the international flavor of the Lab's population. Monthly tuition is $35 for two days per week, and $46 for three days per week. A slight increase is anticipated for the three days per week class.

Information and applications are available from Natalie Aiello, 821-0508, or Jane Shero, 286-0925, or write to Upton Nursery School, P.O. Box 324, Upton, N. Y. 11973.

Classified Advertisements

Autos & Auto Supplies

TIRES - (2) P205/75R14 radial, tubeless, (1) G78-14 tubeless, (1) H78-15 tubeless. 473-6432.

79 DATSUN 280ZX - 2+2, mint, 5 speed, 38,000 mi., $6,000; 1970 Cougar convt., good cond., some fixing needed. 399-0435.

75 FIAT - X1/9, sports convert., gold, needs work, many extra parts, make offer. 286-3679.

73 DODGE DART - 6 cyl., 4 door, runs well, new battery, $300. Bill, Ext. 3937 or 286-8195.

82 YAMAHA - 750 Virago, shaft drive, 800 mi., $2,350. 261-5448.

72 DODGE DUSTER - parts, 6 cyl. eng. and trans., right fender, right door, windshield. 727-3608.

73 HORNET - fair cond., good running cond., $500. Bob, 289-1568.

71 CHEVY IMPALA - a/c, p/s, p/b, good cond., $1,200. Ext. 2673 or 744-8632 after 6 p.m.

63 CHEVY BEL AIR - 2 dr., 6 cyl., very good running cond., orig. owner, 90K mi., sacrifice at $399. Mark, 286-4150.

78 TRANSAM - black/gold, a/c, p/b, p/s, p/w, 6.6 litre 400 engine, louvers, am/fm cassett, very good cond., 68,000 mi., $5,000. 265-0362.

CAR STEREO - Pioneer KP-7500, am/fm cass., with auto reverse, Dolby N/R; AFD-50 graphic equalizer, $200/all, firm. Bob, Jr., 751-6418 after 6.

67 SAAB - Model 96, V-4, front wheel drive, recent seats, muffler, battery, $450. Ext. 4240 or 286-0295.

4-E73-14 TIRES - on 5 hole rims good for spare. Fits Ply., Merc., Ford, $5.00 each. Dick, Ext. 4289 or 878-2421.

73 MGB - red with black interior, mint cond., asking $4,000. David, 473-3777 after 6 p.m.

76 CHEVY NOVA - 4 dr., p/b, p/s, 94,000 mi., $1,000. Ext. 2210.

2 NEW TIRES - Monarch P215/75/B15, $20 each. Simon, Ext. 2182.

TIRES - F78x14 snows on Chevy rims, E78x14 on Chevy rim. Ext. 4192 or 751-7787.

76 KAWASAKI - KZ400, bags, trunk, extra fairing, $495. 821-0758 6 to 8 p.m.

TRUCK TIRES - 4 ea., all Terrain ID-15LT, 32" high on Ford 5 lug spoke wheels, good rubber, $90. Joe, Ext. 3464 or 281-7683.

71 GHIA VW - semi-auto, re-stored, w/new body/paint, $2,700. Ext. 5294.

76 VW RABBIT - 4 dr., 4 sp., am/fm, tape, a/c, hi mileage, body and engine, good, $1,000 or best offer. Cheryl, Ext. 3866.

75 TOYOTA A-30 - auto trans, $50 or whole car, $100. Al, Ext. 2043.

74 CHRYSLER NEWPORT - $450 or best offer. 727-5912.

75 TOYOTA COROLLA - good cond., reliable trans., $1,200. 473-3070.

74 AUDI LS - 2 dr., 4 cyl., 4 spd., p/b, a/c, am/fm st., interval wipers, excel. cond., $1,450. 472-4541 eves.

72 OLDS 98 - high mi., p/s, a/c, reliable transportation, many new parts, $450. Ext. 3999 or 3129 eves.

CHEVY S.B. - 307 cu. in. block, crank, pistons plus rods, cam intake w/2 bbl. carb. plus misc. parts, cheap. Glenn, 281-7873.

76 CHEV. - white, good running cond. Ann, 281-0393.

76 DATSUN 710 - am/fm, trip odometer, very good cond., $1,600. Ext. 3565 or 924-8594.

78 KZ 400 - low mi., very good cond., recently tuned and serviced, $800. Call 281-0360 after 6 p.m.

76 PLYMOUTH SPORT FURY - 2 dr., 318 eng., 70 K mi., new muffler and pipes, clean, $1,350. Bob, Ext. 4782 or 821-0695.

71 PLYMOUTH DUSTER - 751-2149 after 6 p.m.

73 VW - orig. owner, rebuilt engine, clutch, two extra wheels w/studded snows, $1,500. 473-3151.

68 VW BEETLE - $500. 589-5490.

76 NOVA - rebuilt 350 engine, a/t, p/s, p/b, 4 dr., am/fm, good tires and brakes, $1,500. Jess, 581-0042, evening 581-0910.

Boats & Marine Supplies

22' CHRYSLER - 1979, cuddy cabin, camper top, 265 HP, $12,500; 1984 Cox trailer, holds up to 5,600 lbs, 25' boat, $3,500. 734-7496.

21' SAN JUAN SAIL BOAT - Mark II, w/custom trailer, sleeps 4, excel. cond., $6,900. 924-0848 after 5 p.m.

18' WINNER - fbgls, 155 HP OMC, i/o, fwc, trailer, canvas, many extras, $3,200. 722-3905.

28' OWENS - very good cond., new canvas and hardtop, sleeps 4, fully equipped, extras. 281-0360 after 6.

79 MARQUIS - 18' open bow, 85 HP Johnson w/power-trim, full-equip., canvassed, excel. cond. original owner, in-water. $5,300. 289-1870. Arnie, Ext. 2040.

15 FT. FIBERGLASS BOAT - w/steering, excel. cond., $450. Ext. 3604 or 878-0516.

Miscellaneous

COFFEE TABLE - cobbler's bench, dark pine, excel. cond., $60. Mickey, Ext. 3173.

SNACK TRAYS - set of (4), green, hardly used, $20. 744-9677.

BIKE - Columbia, one flat tire, best offer over $55. Joseph Rhodes, 475-1782.

COALSTOVE INSERT - Russo, efficient, also 3-ton bin, $975; colonial sofa, chair, ottoman, $250; (2) colonial loveseats, chair, $300; minibike, $75, moving must sell. 475-1388 eves.

MEN'S BICYCLE - British Raleigh, 25" frame, excel. cond., $125. Ext. 7509.

CASSETTE DECK - Technics, RS-M224, Dolby NR system, metal tape, brand new, box never opened. Bob, Ext. 4656 or 928-1806.

PINE COUCH - chair, ottoman, rocker, $150; dressers, pine, walnut, $25 each; night table, $10. Lydia, Ext. 2380.

GE WASHER - and dryer, 18 lb. capacity, used 1 yr., mint cond., $600; wood burning stove, incl. all piping, excel. cond., $250. Ellen, Ext. 4486 or 878-0480 eves.

LAMP - fluorescent for kitchen or dining room, hung from ceiling, $30. Susan, Ext. 4267.

DEEP FREEZER - Coldspot, 15' chest type, excel. cond., $50. Bob G., Ext. 3988.

UPRIGHT FREEZER - GE, 20 cu. ft., white, excel., $200. 269-9510 after 7 p.m.

CABBAGE PATCH DOLL - new, girl, blonde, pacifier, $55. Donna, 722-4644.

BEDROOM FURNITURE - contemporary bed, dresser, night tables, good cond., best offer over $150. Ext. 4341 or 475-4005.

PVC DARKROOM SINK - 72'x22', splash board, print drying racks, cabinet underneath, excel. cond., $250. 732-6822.

DINETTE TABLE - w/8 chairs, walnut formica, 2 ext. leaves, opens to 36"x84", new seats and backs. Ext. 2476 or 751-2149 after 6 p.m.

TURBO CONVECTION OVEN - Farberware, like new, energy saving, self clean, sacrifice, $85. Aug, Ext. 2898 or 363-7620.

ENCYCLOPEDIA SET - Funk and Wagnals, 35 volume, updated to 1982, can be updated annually, $35. 363-7620.

TABLES - (3) Mediterranean style cabinet type, excel. cond., octagon shape end tables and 5' coffee table, $75. Ellen, Ext. 4486.

ELECTRIC TYPEWRITER - Smith Corona, script letters only, like new, ITT touch tone trim line phone, brown, Petite Curie ivory phone, telephone answering machine, like new. 751-6418.

LUGGAGE - 28" hard suitcase, $15; large heavy duty garment bag, $15; both used once. Ext. 2590.

BEVERAGE SET - new, pitcher with six six-oz. glasses each with painted designs, $12/set. 744-1917.

BICYCLE - girl's 10-speed Columbia, $50. Ext. 3147.

DIAMOND RING - 1.0 carat, excel. quality. Dan, Ext. 2319.

DOORS - 30", $6 each, Toro 21" blade, floodlight bulbs, tricycle, children's clothing, Ext. 4192 or 751-7787.

19" COLOR TV - Sylvania, $50. Ext. 3105 after 6 p.m.

SCHWINN BICYCLE - 10 speed, like new, $100. Ext. 3105 or 282-3105.

COLONIAL SECTIONAL - sturdy 4 piece or 3 piece couch and love seat, only $75. 281-7720.

POP-UP TENT - on trailer, sleeps 4, $250; couches: brown 3-piece sectional, blue 3-cushion. K. Fuchel, Ext. 4116.

LARGE WOOD STOVE - 26" cast iron, high efficiency, perfect shape. Gil, Ext. 3133, 928-8623 eves.

WOOD/COAL BURNING STOVE - Sears automatic thermostat control, heats two story house, $175. Ext. 5042.

NATIONAL GEOGRAPHIC MAGAZINES - 1970's issues, make offer. 727-5912.

SOFA - modern 94" 4-seat Kroehler, yellow and green floral pattern, excel., $125. 363-2070 eves.

BEDSPREADS - twin size, red, white and blue; king size, gold and beige, $15 each. Les, Ext. 2920.

16" SWAG LAMP - brown wicker shade, $30; bookcase headboard (double) $25; Zenith black and white TV, $25. 744-6874.

SEARS AIRLESS HOUSE SPRAYER - used once, $75, case included. Ext. 2427 or 473-0178 eves.

MANUAL OFFICE TYPEWRITER - Olympia SG3, pica, excel. cond., w/cover, cleaning kit and typing book, $40. 581-6432.

ELECTRIC OVEN - GE, self cleaning, avocado green, 6 yrs., excel. cond., $225. Ext. 2095 or 751-6955.

CAMERAS - Ansco 35 mm, auto-focus, $25; Keystone 125X, 126 film, $15; Rawlings lefty baseball mit, $25. 281-3149.

OFFICE WORK TABLE - woodgrain top, steel, 30"x60", large storage compartment w/door, (no drawers), $30, delivered to Lab. 581-6432.

USED LIVING ROOM SET - $50, used dinette table, $15. Ext. 7972 or 281-4662.

NATIONAL GEOGRAPHICS - 1962 thru present, plus index, your price; full bed frame, headboard, cover, drapes, pillow shams, new cond., your price; Hardman spinet piano, new cond., pecan, must see, $1200. 399-0177 or 929-4701, 929-8105.

WASHER/DRYER - one yr. old, Maytag super, beige, both for $450. Ext. 7108.

HOUSE CONTENTS SALE - Belle Terre, by appointment. 473-2588, Sept. 8-9, Ext. 7108.

MINK STOLE - with Launaire collar, beautiful fur, $300 or best offer. 363-6121.

COLOR TV - 19", Sears, very good cond., $140. Ext. 7759 or Ext. 3073 eves.

DINETTE - walnut formica 36"x60" w/2 12" ext. leaves, eight vinyl cushion chairs. 751-2149 after 6 p.m.

TABLE - oak dining room w/leaf, arm chair, 5 side chairs, $175. Marian Ext. 3552 or 744-8639 eves.

FIREWOOD - full cords split and delivered, $135. 399-0168.

WASHER - GE, heavy duty, top loading, white, $150. Tom, Ext. 3086.

Free

FREE CAT - beautiful black and white, spayed, declawed, affectionate, looking for good home. Carol, Ext. 2907 or 698-8510.

PUPPIES - need loving homes, black Lab/Weimariner cross. Miriam, 473-5060 after 6 p.m.

KITTENS AND GERBILS - 929-4792.

GE WASHER/DRYER COMBINATION - and Lennox oil burner. 862-6259 after 6 p.m.

Yard Sales

BROOKHAVEN - 10 family, block/yard sale, Beach Street (off Carmen Blvd., behind firehouse), Sept. 9, 10 a.m.-4 p.m., Sept. 10, 10 a.m.-2 p.m.

CENTER MORICHES - yard and bake sale, corner Main St. and Railroad Ave., Sat., Sept. 15, 11:30 a.m.-5 p.m., rain date, Sept. 22.

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 Rent

WADING RIVER - waterfront apt., 1 bdrm., priv. beach, entrance, yard, fully furnished, fireplace, carpeted, quiet and secluded, 10 min. from Lab, $550/mo., incl. utilities. 929-4113.

PORT JEFF. VILLAGE - unfurn. 2 bdrm. house, recently renovated, 5 appl., w/w, walk everywhere, $850 lease. Ext. 4853 after 1 p.m. or 473-4948 after 6 p.m.

E. Patchogue - 1 large studio room, near pool, marina, beach, $450/mo., incl. all util. 289-9724.

GARAGE - Shoreham, $20 mo. Pete, Ext. 3297 or 821-9547.

MASTIC - 2 bdrm. apt., heat and elec. incl., $550 mo. 281-6116.

YAPHANK - condo town house, 3 bdrms, 2-1/2 baths, cent. air, w/w, full basement, appliances, pool, club house, tennis, 2-1/2 mi. from Lab., furnished or unfurnished. Leo, Ext. 4615 or 924-3928.

MILLER PLACE - 2 bdrm. apartment, living room, full size kitchen, new bath, private entrance, walking distance to beach and stores, 15 min. to Lab or SUNY Stony Brook. Ann, Ext. 2022 or 744-8386.

For Sale

MILLER PLACE - colonial, 4 bdrms., formal l/r, d/r, country kitchen, fam. room w/brick frplc., 9 acres, $158,000. 331-1718.

CENTER MORICHES - 3 bdrm. ranch, eik, full cellar, two car garage on 1/2 acre. Ext. 3725.

CORAM - Birchwood at Bretton Woods, condo., Dalton model, 3 bdrms., den, formal d/r, 1-1/2 baths, gas heat, central air, patio, 1/2 block to clubhouse. 732-6822.

E. SETAUKET - colonial 4 bdrms, wooded 3/4 acre, 2-1/2 baths, l/r, d/r, oak floors, den w/brick fpl, newly redecorated eik, full bsmnt., 2 car garage, 3-Village school, walk to SUNY and elementary school, excel cond., $155,000. 751-3868 eves.

VERMONT CHALET - 6 bdrms., kitchen, sleeps 20; will also rent weekends, $200; week, $400. 698-4362 or 802-228-4363 for info.

SHIRLEY - Tangier Section, 3 bdrm. ranch, finished basement, fenced, many extras, 15 min. from Lab, $64,500. Larry, Ext. 2021 or 281-7240.

Car Pools

QUEENS - 2 person car poo looking for 2 drivers. Simon, Ext. 2182.

SAYVILLE - would like to join or start on-time car pool, flexible, congenial, alto, feminist, non-smoker. Janice, Ext. 3332.

Lost & Found

FOUND - sunglasses along William Floyd Pkwy. Barbara Kponou, Ext. 4231.

Wanted

HOUSEKEEPER/BABYSITTER - 3-5 days/wk. 289-9724.

INFLATABLE BOAT - o.b. type, Avon, Achilles, Boston Whaler or Zodiac, 8' to 12'. 286-1358.

SERVICE MANUAL - for 77 Mercury Cougar. John, Ext. 3292 or 286-1348.

REFRIGERATOR - dorm size, reasonable and in good working cond. Barbara Kponou, Ext. 4231 or 744-6990.

VENDORS - for church flea market Sept. 8, rain-date Sept. 15, exit 70, Manorville, $5 space. 878-6637 or 727-1170.

TRAINS - Lionel, American Flyer, accessories, any cond., brings good price. Carole, Ext. 3362 or 924-4097 eves.

HOUSE SITTER - reasonable, Suffolk and Nassau areas. Ext. 3671 or 736-2131 eves.

WEIGHTS - bar bells, bench, etc. Pete, Ext. 3297.

HELMET - for bicycling, adult size, any cond., reasonable. Chip, Ext. 2256.

CLEAN FILL - approx. 20 cu. yds. Ext. 2492 or 475-8658 after 7 p.m.

RECORD ALBUM - Magnetic Fields by Jean Michael Jarre. Hans, Ext. 4584 or 281-5563.

BRIDGE PLAYERS - for competitive team or rubber bridge. Angelo, Ext. 4865.

Services

BABYSITTER - reliable, experienced teen, avail. nights and weekends. Mary, Ext. 2926 or 281-086 evenings.

JEWELRY REPAIR - gold and silver. Dan, Ext. 2319.

FIRESIDE CHIMNEY SWEEP - fireplaces, wood, coal and oil flues, replacement parts, relining caps, Lab discount. 821-9690.

GENERAL CONTRACTOR CARPENTER - extensions, dormers, garage conversions, basements, decks, kitchens, licensed. Jim, 698-2501.

BABYSITTER/MOTHER'S HELPER - Shoreham/Wading River/Rocky Point, responsible, loving 15 year old desires position. Nancy, 821-9547.

LAND CLEARING - using excel. rake on JD 450 track loader, $45/hr. with operator. Tom, Ext. 4084 or 878-1060.

SHEETROCKING AND SPACKLING - free est. Kevin, 567-6651 or 282-2238.

CLIENTS - in need of manicure or pedicure? Maria, 399-4552 after 5:30 p.m.

TENNIS LESSONS - experienced, reasonable. Ext. 2248.

PARTY TENT - for rent, all occasion, 20'x30'. Fred Kuehl, Ext. 7947 or 588-2268.

PIANO ENTERTAINMENT - for your party, wedding or event, any style or mood. Ivan, 473-8150.

VIDEO TAPING - weddings, recitals, birthdays, Lab employ. discount. Mark, 928-5684 evenings.

FALL CLEAN UP - ambitious, strong 13 yr. old, desires yard work, garage cleaning, car washing, etc. Peter, 821-9547.

MAGICIAN AND CLOWN - balloon sculptor also avail., children's parties are my specialty, reasonable rates. 654-9094 after 6 p.m.

AUTO SHAPING - look new, machine compound, wax, polish, body work, paint, interiors, stripping. 744-4047 eves.

ELECTROLYSIS - permanent removal unwanted hair, licensed physician, trained latest method, by appointment. 331-4768.

HAULING - furn., wood, trash, etc. Free estimates, professional, courteous. Mike, 331-5042.

VIOLIN LESSONS - all ages, also Suzuki method. 821-0754.

Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Ads for the sale or trade of firearms will not be accepted.
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. One ad per person per week.
7. **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, Building 134.**

☐ For Sale: Autos & Auto Supplies
☐ For Sale: Boats & Marine Supplies
☐ For Sale: Miscellaneous
☐ Car Pools
☐ Lost & Found
☐ Wanted
☐ Free
☐ _____

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.

Note: The following must be completed for your ad to appear.

NAME (Please Print) .....

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

Send to: Brookhaven Bulletin, Building 134 (Ext. 2345).