BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Let The Sun Shine In!

Urban Renovation Project Wins Passive Solar Design Award

A unique challenge is posed when an existing building in an urban setting is retrofitted to accept solar/energy conserving technology. Meeting this challenge successfully, architect C. Stuart White, Jr., of Branwell, White and Arnold, Inc., recently received the Passive Solar Design Award in the Multi-Family Retrofit Category.

White, who served as a solar consultant to BNL, received the award at the Fifth National Passive-Solar Conference for a New York City building renovation project which was partially funded by the Department of Energy.

In appraising the design for converting a heavy mass, high-rise, industrial structure into a solar/energy conserving apartment building, a distinguished panel of judges acknowledged that White had synthesized the best of architecture and engineering while maintaining thermal performance, economic feasibility and aesthetic appeal.

Almost two years ago, Ralph F. Jones, Project Manager of BNL's Conservation Program Management Group, was contacted by representatives of the Northeast Solar Energy Center who were already involved in the project and who felt that BNL and the DOE would also be interested.

The Future of Housing

BNL's Conservation Program Management Group is concerned with energy conservation and solar energy as epitomized by the Brookhaven House, an energy-saving, one-family construction located on site. Since most of the Group's projects involve single-family houses, Jones was intrigued with the possibility of using these concepts in an urban setting. He said, "Apartment living is probably the future of housing. Single family houses are becoming very expensive."

This feeling, coupled with a desire to "do something urban – something for the people in the city," led Jones to contact John Cable of DOE, Head of the Buildings Division of the Office of Buildings and Community Systems. Sharing Jones' enthusiasm, Cable helped secure DOE funding for engineering analyses.

Situated at 424 West 33rd Street, the building which is the subject of this project was constructed in 1912 as a manufacturing site. When its owner approached White's firm about conversion to a residential building, only three of its twelve stories were occupied by businesses. The architects, who are noted for their energy-efficient building designs, saw at once the possibilities inherent in the existing loft structure with its high ceilings and heavy masonry construction.

Basics of the Technology

Those who have visited the Brookhaven House have seen how the large, greenhouse-like sunspace on the south face of the house acts as a solar collector. In the winter, when the sun is low on the horizon, the sun's rays stream through the glass and heat the brickwork behind the sunspace – the masonry mass of the house – as well as the air in the sunspace. Solar energy is stored as heat in the brickwork until the air temperature in either the sunspace or the house falls below the surface temperature of the brickwork. Then the stored heat from the masonry mass radiates and convects naturally into the cooler area.

In summer, when cooling is desired, the sun is higher and does not strike the masonry mass directly. The thermal mass is utilized to store cool nighttime air and provide cooling during the hotter daytime hours.

The same principles of passive solar technology are used in the urban project. Situated near Amtrak railroad yards, the building stands alone, its south face unobstructed by other buildings. Thus, it receives the direct solar gain so important to this concept. The heavy concrete of its masonry construction provides the thermal mass to store radiant energy for heating and cooling.

The architects also realized that not only was the structure a good candidate for solar renovation, but it was also a good choice for residential renovation. Located just a few blocks from Madison Square Garden and adjoining the area designated for New York City's new Convention Center, the present near-empty eyesore would be an attractive, well-situated apartment building.

With its new design, the entire south face of the building would be glazed, and a series of greenhouse-like terraces would serve as a solar collector for the entire building. To use the space in the warehouse-type building most efficiently, the architects designed primarily studio and one-bedroom apartments. The proposed first floor houses a lobby and a restaurant, while several concepts have been created for converting the existing penthouse area.

The completed design is a result of investigating "literally hundreds of options," Jones said, "about how one would use solar gain, reinsulate, distribute to the north side. These options were all computerized to produce not only a building, but also a textbook for architects and engineers."

Implications of the Design

As Jones explained, "The design has enormous social and energy implications. So much of the city needs rebuilding. And the energy savings are phenomenal." As a commercial site, the building used 80,000 gallons of oil a year. Projected oil usage after renovation, when the building will be residential with increased loading in terms of use of oil and water, is 12,500 gallons a year.

Additional savings are inherent in the renovation itself. All buildings contain a certain amount of "embodied energy" – the energy already expended to produce the materials for the initial construction. By utilizing this energy, rather than tearing down the building and erecting a new one, great savings are realized in terms of time, materials and manpower.

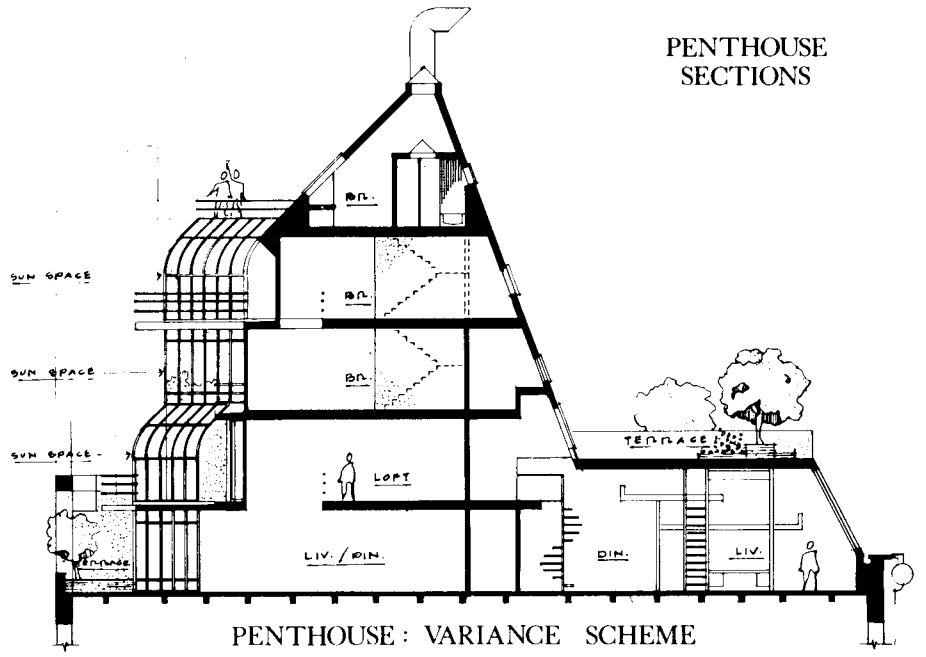
Despite the excellence of the design and the urgent need for its implementation, actual reconstruction has been delayed pending resolution of the legalities involved in rezoning the building site from commercial to residential use.

Meanwhile, the project is due for considerable publicity. As one of the award winners at the Fifth National Passive-Solar Conference, it will be published in a book by the Solar Energy Research Institute. Jones is also involved in the final project report which will be distributed in a few months.

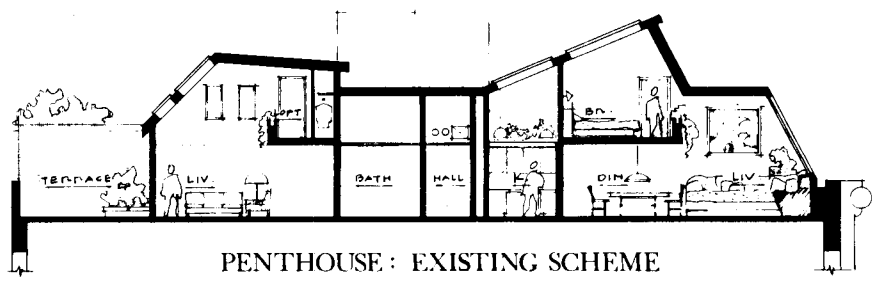
Once the project is initiated, Jones estimates it will take about one and a half years to complete the renovation.

—Anita Cohen

PENTHOUSE SECTIONS



PENTHOUSE: VARIANCE SCHEME



PENTHOUSE: EXISTING SCHEME

The top drawing shows one variance scheme for renovation of the penthouse area. This concept takes advantage of the concrete structure with its excess load-bearing capacity. Duplex and triplex units are contained in this five-story plan, which extends both elevators and fire stairs to the top of the penthouse. As in the rest of the building, the entire south face is glazed with sunspace terraces to preserve the solar/energy saving concepts motivating the project.

As shown in the bottom drawing, the existing penthouse scheme provides only for duplex apartments with incomplete room development on the upper level. This design was dictated by the physical limitations of the existing structure, including the termination of elevators at the twelfth floor and of fire stairs at the penthouse level.

These architectural drawings were prepared by Banwell, White & Arnold, Inc., Architects.

From Basic Training To Basic Research

Louis Harson, Principal Architect and Camp Upton Historian, was invited to prepare a slide show of the Lab's history for the DOE/Contractors Micrographics Association conference last month. The show was so well received that it was suggested to Harson that he polish it up and present it to the Lab staff and to local historical societies.

The show spans 63 years, from World War I to the present, and traces the history of the construction of Camp Upton and BNL.

The presentation combines visuals, music, voice, and sound effects that give viewers a professional multimedia experience.

Once the show has been automated, it will be presented to the staff at Berkner Hall during lunch hours. Watch the *Bulletin* for show dates.

Brookhaven's slide show traces the Lab's history from the trenches of Camp Upton to the sophisticated machines of today.

Fight World Hunger

The Brookhaven OXFAM Committee is taking part in the nationwide Fast for World Hunger on Thursday, November 20. Participants will voluntarily give up one, two, or three meals that day and donate the money saved to OXFAM, which will use the proceeds to help fight global starvation.

Those interested in taking part in the fast are asked to contact Chip Balzer, Ext. 2256; Tony Fainberg, Ext. 2920; or Bud Protter, Ext. 4423. Lapel buttons will be distributed to denote participation.

Lecture Reminder

Leon Green, Head of the International Safeguards Project Office, is the featured speaker for the next BNL Lecture on Wednesday, November 19 at 8 p.m. in Berkner Hall. Green's topic is "National Laboratories in Support of International Safeguards."

For Spring Color

Plant bulbs now before the ground freezes. Here's advice from Cornell University.

Crocus sieberi, also called early crocus, is an outstanding species that produces pale lavender blooms as early as mid-February. Ten varieties of golden or orange crocus, *C. chrysanthus*, include: Advance (yellow inside and lavender outside), Blue Pearl (light blue), Cream Beauty (creamy yellow), E.P. Bowles (yellow), Fusco Tinctuc (dark to light yellow), Moonlight (pale yellow), Princess Beatrix (light purple), Snow Bunting (white), Warley (white with purple stripes), and Zwanenburg Bronze (dark yellow inside, dark bronze outside).

Among the low-growing tulips tested at Cornell and recommended for home gardens are *Tulipa greigii* and its hybrids. It seldom grows more than 12 inches tall, and is characterized by broad green leaves mottled and striped with purple and brown. Recommended varieties are: Cape Cod (orange and scarlet), Golden Day (yellow with scarlet base), Oriental Splendour (red, edged with yellow), Red Riding Hood (red), and Yellow Dawn (yellow inside, red outside).

The waterlily tulip, *T. kaufmanniana*, is another low-growing species. Its creamy-white flowers are pink on the outside and yellow at the base. Hybrids with *T. greigii* have given it a wide range of flower color and foliage quality. Recommended are: Fair Lady (light yellow with red center), Goudstuk (dark yellow with red border), Heart's Delight (light pink inside, dark pink outside with yellow center), Johann Strauss (creamy white inside, reddish outside), Shakespeare (salmon, apricot, and orange blend), and Stresa (yellow with red center).

Your Help Makes A Difference

When people help each other, the world is a better place for everyone. United Way is a community-based, voluntary, not-for-profit organization which annually raises and allocates money for 109 health and social services throughout Long Island.

Reach out a helping hand by donating to United Way. No matter what the amount, your contribution will be greatly appreciated.

Next Friday is the end of the Lab's 1980 United Way campaign. Department coordinators have been busy giving group presentations and talking to individuals. If you have been missed, take the time now to fill out a duplicate of the United Way card printed below.

You can pledge for the year or make a one-time contribution. Send the card, accompanied by your check if you are making a one-time gift, directly to Payroll, Building 134.

As BNL's campaign chairman Ernie Jochen says, "An act of giving is an act of caring. A donation is a part of sharing."

LIFE NUMBER	EMPLOYEE NAME	DEPARTMENT	CURRENT DEDUCTION

In support of the Member Agencies of the United Way of Long Island, I hereby authorize Brookhaven National Laboratory to make regular Payroll Deductions for the amount indicated. Payroll Deduction PER PAYDAY To start 1st payday January 1981.

Payroll Status

☐ Weekly ☐ Monthly

1980 FALL CAMPAIGN

1.00 ☐ 2.00 ☐ 3.00 ☐ 4.00 ☐ 5.00 ☐ other ☐

☐ Here's my one-time gift in the amount of $ _____. Paid by: ☐ Check ☐ Cash

Contributor's Signature _____ Date _____

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In Memoriam

Stephen R. Stadnicki, Principal Technician in the Accelerator Department, died on November 6 of cancer. Thirty one years old, he had been with the Lab since 1977. Stadnicki, who lived in Port Jefferson, is survived by his wife, Elizabeth; his mother, Catherine; his father, Stephen; and his three brothers, Frank, Edward, and David.

Equipment Demo

The Burroughs Corporation will demonstrate their word processing and OCR equipment on Tuesday, November 18, from 11 a.m. to 3 p.m. in Room D, Berkner Hall.

Cafeteria Menu

Week Ending November 21, 1980

Monday, November 17

French onion soup	(cup)	.55
	(bowl)	.65
Corned beef & cabbage		1.60
Sweet & sour pork & 1 veg.		1.60
Hot Deli – Pastrami	(on bread)	1.55
	(on roll)	1.65

Tuesday, November 18

Thanksgiving Special

Turkey noodle soup or apple cider
Choice of:
Roast turkey w/dressing, giblet gravy & cranberry sauce
or
Baked, sugar-cured ham w/raisin sauce
Choice of:
Candied sweet potatoes & mixed vegetables
or
Whipped potatoes and mashed yellow turnips
Apple or pumpkin pie or Indian pudding
Coffee or Tea
$2.95 plus tax

Wednesday. November 19

Chicken gumbo soup	(cup)	.55
	(bowl)	.65
Baked lasagna & 1 veg.		1.55
Swedish meatballs on noodles		1.55
Hot Deli – Barbequed beef	(on bread)	1.65
	(on roll)	1.75

Thursday, November 20

Navy bean soup	(cup)	.55
	(bowl)	.65
Roasted chicken & 1 veg.		1.55
Beef hash & 1 veg.		1.55
Hot Deli – Philadelphia-style steak sandwich		1.75

Friday, November 21

Seafood chowder	(cup)	.60
	(bowl)	.70
Yankee pot roast & 1 veg.		1.60
Broiled fillet w/1 veg.		1.50
Hot Deli – Italian sausage hero		1.70

Safety Alert

The importance of *always* reading the cautionary labels on *all* products was emphasized in a recent report from Hill Air Force Base.

In this instance, it was discovered that the propellant in an oven cleaner, which had previously been labeled either "nonflammable" or "practically nonflammable," is now labeled "flammable." Obviously, this is some thing one needs to know before using a cleaner in an oven.

How did this happen? Unfortunately, this is a situation where, in an attempt to solve an old problem, a new one was inadvertently created.

Freon was the propellant used in aerosol cans of common materials. With freon release reportedly destroying the ozone layers in the atmosphere, concerned manufacturers attempted to solve the problem by switching to other propellants.

This is where the new problem was created. Many manufacturers have substituted either propane or butane. Both of these new propellants are flammable. Manufacturers, of course, are labeling the cans with this new cautionary information. Yet, because of their previous labeling, the products may be used in confined flammable atmospheres by unwary people.

To stay on the safe side, recheck the labels on *all* aerosol cans, and take precautions as indicated by the manufacturer.

For On Site Diners

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 27 through Sunday, November 30.

The Center will be closed on Thursday, Friday, and Saturday, reopening at 5:00 p.m. on Sunday, November 30.

The Vended Food Service in Building 912 will be in operation throughout the Thanksgiving Holiday.

Holiday Hams

Fully cooked and garnished, smoked, whole, bone-in hams are now available at the Cafeteria for the upcoming holiday season. They cost $1.79 per pound and average 14 to 17 pounds. To place your order, call Ext. 3541.

Indoor Tennis

Commencing November 17, tennis players may reserve the gymnasium court for the following periods:

Tuesday – 5 p.m. to 9:30 p.m.
Sunday – 1 p.m. to 5:30 p.m.

Reservations can be made at the gymnasium no earlier than a week before play. Players are limited to one period of court time each per week.

Service Awards

The Director has appointed a committee to examine the Laboratory's service awards program and to make recommendations on an improved program. The nature and frequency of the awards and the manner of presentation are to be considered. The committee membership is as follows:

Ronald F. Peierls..A. Math, Chairman
Gregory Bagley.....Accelerator
James Desmond.....Director's Office
Patricia Fox.....Energy & Env.
Charles Geonie, Jr.....Plant Engrg.
Janet Hoefling.....Director's Office
Dr. Darrell D. Joel.....Medical
Walter Milian.....Plant Engrg.
Gordon Rackett.....Accelerator
Marguerite Stoeckel.....Fiscal

The committee would like to hear from employees (either past recipients of service awards or those anticipating awards) who would like to comment on the present award system and its implementation. Please direct any comments in writing to the chairman or any member of the committee by November 21st.

Arrivals & Departures

Arrivals

Daniel Carbonaro.....Plant Engrg.
Vincent J. Costanzo, Jr......Plant Engrg.
Peter B. Zuhoski, Jr......Accelerator

Departures

James R. Lanni.....Accelerator
Richard J. Conklin.....Safety & Env. Prot.
Christopher J. Lister.....Physics
Chandra S. Pande.....Energy & Env.

Bowling

Pink League

Special congrats to April Donegain for her first 200 game, a 209 scratch 271 gross. Other good games were bowled by Helen Keeley 189/188, Carol Beckner 176, Karen Alberico 176 (488 series), Ellie Kristiansen 176, Renie Rosati 171, Deb Johnson 168/161, Madeline Windsor 165 and Marge Stoeckel 163.

Purple & White League

The Good Guys moved into first leaving the Gropers and Diamonds tied for second. Sharon Smith rolled high series for the ladies with a 559, games of 175/196/188. Renee Flack rolled high game for the ladies with a 203. Ken Riker and John Connelly rolled high series for the men with a 572. Ken Riker also had high game with a 212. Other good games were Ed Frantz 203, Grace Kyhl 200, Pat Manzella 184, Gerrie Riker 180.

Green League

The Pinball Wizards still in first place took 8 from the 76'ers. T. Prach bowled a 206 and R. Eggert 208. The Blue Jays lost 11 to the Light Source. The Old Timers II took 7 from the Trouble Shooters. The Sparks moved into second as they took 8 from the Designers. The Phoubars managed 8 from Isa Team.

Shutterbug Alert!

Amateur BNL photographers are invited to submit black and white prints of winter or holiday scenes. A few of the most appealing photos will be chosen to decorate the December 19 issue of the *Bulletin*. Photos should not be bigger than 8½" x 11" and must be submitted to the *Bulletin* Office, Building 460, by December 5.

A Look Into China

Are you tempted by a 20-day trip to China in July to see the magnificent terra cotta figures in Sian, or take a three-day trip through the Yangtze River gorges and on to the great Muslim River Chengtu?

If so, call P. Vineyard at 286-0269. The price tag is $3,800.

Women In Science

James Sanford, Associate Director and ISABELLE Project Head, will discuss ISABELLE at the luncheon meeting of the Women In Science on Wednesday, November 19, at 12 noon in Room A of Berkner Hall. Everyone is invited. Bring your own lunch.

Runner's Corner

Marathoning was the BIG NEWS these past few weeks with BNL Roadrunners scattered from Newport, Rhode Island to Washington, D.C.

In New York City, the largest group of BNL'ers huddled with 16,000 starters on the Verrazano Narrows Bridge trying to avoid the cold, bone-chilling winds. Aided by these initial tailwinds many runners turned in impressive first half times, but paid a price when faced with stiff headwinds crossing the 59th Street Bridge. Jerry Hastings led all team finishers with an impressive 2:49:48 – good enough to qualify for the Boston Marathon. He was followed to the finish by: Mike Paquette (3:20); Gus Prince (3:25); John Ferrero (3:25); Bill Thomlinson (3:27); Terry Frei (3:38); Win-Shi Yu (3:46); Brian Morris (3:57); Terry Whitledge (4:45) and Charlie Briening (5:09).

At the Marine Corps Marathon in Washington, D.C. Curt Fincher raced to a personal best for the first 20 miles, then succumbed to stomach cramps at 22 miles.

The Ocean State Marathon in Newport, Rhode Island attracted many team runners. Gary Struve (2:45) finished in 77th place to lead all team members. He was followed by Terry Frei (3:38), Dennis Nordstrom (3:39) and Jim Vaughn (4:14).

The club will hold a reorganizational meeting on Friday, November 21 at noon in the conference room of Building 318. Everyone interested in the future of the club is urged to attend. Bring your lunch.

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.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex, age or handicap.

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.

1499. LABORATORY CUSTODIAN - Plant Engineering Division.

1500. LABORER - Plant Engineering Division.

1501. BUILDING AND GROUNDS UTILITY WORKER - Plant Engineering Division.

1502. DRIVER - Plant Engineering Division.

1503. RIGGER'S ASSISTANT - Plant Engineering Division.

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

1504. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Requires minimum of five years industrial electrician experience. Plant Engineering Division.

1505. OFFICE SERVICES ASSISTANT - Requires excellent computational skills or aptitude. Solid payroll experience with large organization highly desirable. Fiscal Division.

1506. STAFF ENGINEER - Requires BS or equivalent in science or engineering and experience or education in business management. Background in computer usage and programming highly desirable. Will perform ordering and receipt and specialized accounting of isotopes and special materials. Must be able to obtain Q clearance. Reactor Division.

Autos & Auto Supplies

72 PLYMOUTH - Fury, 2 dr, r/h, p/b, p/s, good cond. Asking $600. Ext. 2914, 286-3742 wkends, eves.

TIRE - brand new, sell or trade F70x15 Goodyear raised letters. Joe Cracco, Ext. 2012 or 2005.

71 VW VAN - good cond, 30,000 mi on rebuilt eng. $1,200. 286-3851.

79 FORD - p/u, F150, 4 w/d, black, oversize tires, roll bar, am/fm 8 trk stereo, w/power booster, excel cond, must see. 744-0742.

CARB - fits Ford 289 V8, 2 BBL, factory rebuilt. $30. Dave, Ext. 4173 or 281-6248.

77 HONDA - 750K, sissy bar, highway bar, chrome air filter, helmet. Asking $1,400. 929-3417 after 6.

SPOKE WHEELS - (4) chrome w/locks fits GM cars, size 15"x7". $135. 475-0037.

RIMS - 14", 5 hole. Ext. 3392 or 475-8330.

74 CHEVY - Caprice, p/b, p/s, a/c, reg gas. $900 or best offer. Ext. 3106.

73 BUICK - Regal, p/s, p/b, am/fm radio, low mi, brown w/tan top, good cond. $1,100. 744-0742.

78 MIDAS MINI MOTOR HOME - 21', sleeps 6, low mi, fully equipped, many extras, excel cond. $11,000. Carmen, Ext. 4776 or 298-4931 after 6.

RIMS - 13" for Toyota or Datsun. $8 ea. 281-8274.

73 FIAT - 128 sedan, very good running cond, new clutch, master cyl, front brakes, good body. $400. 929-4522.

68 CHEVY - Nova, runs well, rebuilt eng, needs paint. $400. 929-4886 after 5 pm.

75 FORD - Granada, 2 dr sedan, landau roof, 302 V8, loaded, excel cond. $2,200. Ext. 3381 or 286-1024.

66 RAMBLER - sta wgn, a/t, r/h, good basic transp. $200. Ext. 2542.

72 PLYMOUTH - Valiant, 4 dr, a/t, p/s, am/fm stereo 8 trk, reliable transp. $500 firm. 751-5539.

Boats & Marine Supplies

14' DUO GLASS - speed boat, 40 hp Evinrude, anchor, oar, canvas cover, new cables, running. $400. 281-7200 after 6 pm.

FIBERGLASS DUCK BOAT - 14' steering and controls, painted o/d, ready to go. $150. C. Nielson, Ext. 3935 or 325-0968.

12' JON BOAT - Sears, good cond. $125. Richie, Ext. 4254 or 734-7342 after 6 pm.

Miscellaneous

RUG - 9x12 all wool authentic braid rug, very good cond. $85. 732-1298.

COLEMAN LANTERN - good cond, $15; table, wooden, kitchen cutting/breadmaking stand-up height, $25; organ, small, elec w/legs, $25; book shelf, medium toys/books for child, $10. Andy, Ext. 2948 or 722-3168.

RADIO - large old European made table model, incl short waves, antique. Best offer. 286-3742 eves/wkends.

MOVING - full size mattress, springs, $50; dinette table, 4 chairs, $100; lamp; unfinished furniture, oak dresser, $100; night-stand, $40; pine end table, $25. Ann, Ext. 4396 or 289-2086.

WATER PUMP - Starite deep well, very good cond. $50. Dave, Ext. 4173 or 281-6248.

TACH - and dwell meter, 2 for sale, $15 and $25. John, Ext. 4973.

BATHTUB - sink and toilet, $75; tub enclosure, $25. Bill, Ext. 7772 or 281-0557.

EVERGREENS - fir and spruce 22" to 48". You dig, 2 for $7; buzz saw for cutting wood, $20. 727-1617.

OSTER - professional hair dryer w/hood, 720 watts. $15. Les, Ext. 4074.

CASSETTE TAPE DECK - B.I.C. 2 spd stereo cassette deck, 6 mo old, still under warranty, perfect cond. Orig $300, asking $150. 732-5829.

RIFLE - Marlin, cal 30-30 w/Lyman peep sights, mint cond. $150. John, Ext. 4312.

KODAK - Color Burst Model 100 w/flash, like new, Orig $45, sell for $25. Ext. 2460 or 744-9822.

DRAFTING BOARD - 24x36 steel edge for desk top use. $18. Nick, Ext. 4701.

RAWLINGS - football shoulder pads, brand new, X-large, plus football book, $15. Ext. 4051 or 286-3377 after 6 pm.

BASEBOARD - 8 ft and 4 ft elec heaters, best offer; also Anderson gliding window 26"x62¾, $50. V. Droscoski, 473-4471.

BABY CRIB - mattress and chifforobe, $25; bookcase headboard, twin size, $5. 744-5553.

THERMO/CONTROL - wood stove, hot water coils heat shields, heats entire house, excel cond, $450; automatic garage door opener, receiver or transmitter inoperative, drive and control OK, $50. 298-4172 or Ext. 3992.

MAHOGANY - cocktail and lamp table set, also hi-back upholstered chair. Price negotiable. 369-2504.

BORGHESE COAT - women's size 10, fur collar, excel cond. Rose, 665-6959.

GAS RANGE - Tappan, 36", clock, timer, appl outlet, oven light, very good cond. 732-6334.

DRYER - GE 120/240 v, 1800 watt, permanent press cycle, perfect cond. $100. Andy Feldman, Ext. 3264 or 928-3868.

WOOD BURNING - Franklin stove. Make an offer. Ext. 3431 or 744-9677.

SLOW COOKER PLUS - West Bend, new, $40 in store, asking $25; hair dryer w/hat, $10; air cond, $85. 924-4991.

DINETTE SET - 48" round, open to 60" oval, walnut top, 4 bucket chairs, chrome legs. $125. 289-3114 after 4 p.m.

KITCHEN TABLE - w/4 chairs, $30; X-firm therapedic mattress, like new. Ext. 3218.

DISHWASHER - portable, green, w/butcher block top, good cond. $200. Ext. 3431 or 744-9677.

GARDEN TRACTOR - 8 hp, B&S, 36" cutter, 42" plow w/chains, excel cond. $425. Richie, Ext. 4254 or 734-7342 after 6 pm.

SINK - cast iron, high back, white. Free. 281-2767 eves.

KITCHEN TABLE - w/5 chairs, solid wood, $50; portable sewing machine. Mike, Ext. 4396 or 924-8421.

BICYCLE - girl's 3 spd, yellow Schwinn, 19" frame, excel cond. $50 or best offer. Ext. 3060 or 744-4787.

CLARINET - Bundy Selmer w/case, excel cond, new pads, etc, wood and plastic. Charlie, Ext. 3354 or 234-8530.

TRADITIONAL 90" SOFA - wine velvet, very good cond. $250. Ted, Ext. 4030 or 499-2096.

WOOD BURNING STOVE - airtight, heats to 1500 sq ft, custom made, in excel cond. Reduced to $299. Bob, Ext. 4551.

K&E TRANSITE & TRIPOD - $275. 289-1026.

TV - 21" Zenith color, all tube set 10 yrs old, working order. $75. Vinnie, Ext. 3284 or 744-9429.

CLOTHES DRYER - GE heavy duty, 3 yrs old, excel cond. C. Thorn, Ext. 7798 or 929-8179.

SAVE MONEY - and energy, radiant quartz heater, new, guaranteed. $95 in store, only $60. 924-4991.

79 RABBIT "C" - am/fm, rust proofed, reg gas, low mi, 30-39 mpg, clean. $5,000. Pete, Ext. 3292.

73 COUPE DE VILLE - mech excel, new tires + mounted snows, all power. $900. 698-4432.

SHEETS - and mattress pad, full size; corningware 10" fry pan, $17 or best offer, all brand new. S. Spark, Ext. 4111.

71 OPEL - 2 dr, 4 cyl, std, 27 mpg, 2 new tires, many new parts, needs muffler, 70,000 mi, $1,300. Juan, Ext. 4254 or 399-4394 after 6 pm.

68 MERC WAGON - p/s, p/b, auto, 71 eng, 6 very good tires, new shocks, needs windshield, high mi. $300. Joe, Ext. 4254 or 281-7683.

77 VOLARE - wgn, a/t, p/s, p/b, new snows, stereo am/fm, 45,000 mi. $3,100. Ext. 3601 or 286-0958.

73 PLYMOUTH - sta wgn, suburban 9 pass, lug rack, p/s, p/b, a/c, extra snow tire on wheels. $1,300. Ext. 3352 or 924-3641 after 5:30 pm.

80 DODGE - Omni 024, sport, sunroof, am/fm stereo, 8 trk, rust proof, many extras, 30 + mpg, mint. Reasonable. 799-7160.

79 OLDS - Starfire, 4 cyl, 4 spd, 10,500 mi, 33 mpg highway. Ext. 4666.

69 CAMARO - excel running cond, needs body work. Best offer. Marlene, Ext. 4194 or 736-1006 eves.

59 MERCURY - Montclair, 48,000 orig mi, 2nd owner, black, excel in and out. $1,400 firm. Must sell, lost storage. 981-6078 after 6.

MOTORCYCLE WINDSHIELD - plexifaring, had on 1978 Honda CB750K, excel cond. $65.00. Ext. 4051 or 286-3377 after 6 pm.

69 ECONOLINE - "Open road style" camper, folding table-bed, potti, gas stove, and heat, ice box, 2 batt, auto 6 cyl, many new parts. $1,500. 281-0360.

77 TRIUMPH - Spitfire, 24,000 mi, 6 spd, trans, excel cond. Best offer. Tim, Ext. 2024/22 or 744-1782.

AUDIOVOX FM CONVERTER - w/weather band. $8. Bob, Ext. 4551.

79 CHEVY - Impala, 2 dr coupe 305, small V8, p/b, p/s, am/fm stereo 8 trk, 13,000 mi, excel. Call after 4 pm. 289-3114.

1970 - 307 and Turbo 350 three spd trans eng, has 10,000 mi after head job. Annamarie Spira or Gil at 473-9016.

67 TRIUMPH - 650 cc, complete, good for parts or restoration, stock good Dunlops. $250. Ext. 3533 or 654-2076.

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

MASTIC BEACH - 3 bdrm ranch, corner lot, roofed patio, pleasant location near water. Low 30's. 281-7531.

MT. SINAI - 3 bdrm Hi-ranch, fam rm, fp, patio, eik, 1½ baths, 100x150 (⅓ acre) semi wooded lot, 20 min. from Lab, oil HW, 10 yrs. old, many extras. $35,500. 473-0548.

MEDFORD - ⅓ acre, Cape, 4-5 bdrm, 2 bath, den w/fp, 1/r, w/wood stove, lg. eik, formal d/r, 18x36 in ground pool. $43,900. Jack, Ext. 4254 or 289-6708.

BELLPORT VILLAGE - 3 bdrm high ranch, 1/r, f/r, den, lg. eik, att. gar., deck, 1½ baths, short walk to Kreamer St. School. $42,000. Financing available. 286-8166.

CENTER MORICHES - M/D on 2½ acres, residential/business, w/200' waterfront, l/r, w/fp, lg. country kit, 4 bdrms, 2 baths, attached apt. w/liv. rm & fp, bdrm, bath & kit. 877-0642.

For Rent

SHIRLEY - attractive efficiency apt, furnished, pri. entr, utilities incl, excel location, 5 min. from Lab & stores, gentleman. Security. $275. pays all. 281-8044.

STONY BROOK - lg. rm. in house, share kit., laundry, common areas, walk to SUNY campus, hosp. $115. + share of util. Pete, Ext. 4478 or 751-5633.

WADING RIVER - 1 bdrm apt., furn., priv. entr. on bottom floor of home, secluded, half block to priv. beach, quiet individual perferred, all util. incl. $225/mo. 929-4180 after 8 p.m.

E. SETAUKET - 1 rm apt. in priv. home, separate entr., full bath, fp, carpeted, central heat & a/c, $260/mo. 751-7491 after 5 p.m.

MIDDLE ISLAND - house for rent, 5 min. from Lab, on Carman's River, quiet nature setting, swim, fish, boating, 4 bdrms, den, fp. 924-3755.

PORT JEFF VILLAGE - 3 bdrm ranch, l/r, d/r, fam rm, eik, fin bsmt, completely furn. $675/mo. 2 yr. lease desired. Ext. 4074 or 928-0829 after 6 p.m.

S. MEDFORD - unfurn. 1 bdrm apt. in priv. home, priv. entr, lg. l/r, parquet floors, $325/mo. incl. util. 289-3352.

BAITING HOLLOW - lg. contemp., 2 bdrm house on 2 acres overlooking Sound, secluded area, priv. beach. Available Dec. 12, 1980 to June 15, 1981. 727-8631.

E. PATCHOGUE - 3 bdrm house w/male student, dog, and cat. Feb. 1st - June 30, 1981. J. Olson Ext. 3382 or 289-8629 after 7 p.m.

BELLE TERRE - recently renovated 3 bdrm house, new master bdrm, kit, 2 bathrms, furn. $700/mo. Available about Dec. 1. 928-0281 after 6 p.m.

PORT JEFF STATION - 1 bdrm apt., l/r, full bath, full kit., desirable area, mint cond. $350/mo. + util. Ext. 4094 or 751-6575 eves.

MIDDLE ISLAND - spacious furn. rm in quiet home & neighborhood, some privileges. 15 min. from Lab. Ext. 4068.

POCONOS - Chalet, in priv. community, sleeps 6, fp, Ski Tanglewood, Elk Mt., rent by wk. or wkend. Bob, Ext. 4551 or 289-2159.

LOWER PT. JEFF - 3 rm apt., fully carpeted, great view. $360/mo., share util. 473-1311.

Wanted

PORTA/CRIB - used; man's wooden desk; and child's car seat; sewing desk. 924-4054.

BABYSITTER - who lives on-site. For 10 mo old, M-F, 8:30-5:00, non English speaking is fine. M. Rowe, Ext. 2345.

CAMPBELLS SOUP LABELS - for community nursery school equipt. Send to S. Lamm, Bldg. 463 or Ext. 3404.

HOUSEMATE - to share 4 bdrm, 3 bathrm house in Coram $155/mo. plus ⅓ util. 928-8379 eves or Ext. 2521.

PROGRAMMABLE TI 57 - or TI58C calculator. Rich Casella, 744-0024 eves or Ext. 2973 before 8:30 a.m.

LUGGAGE CARRIER - moulded plastic for auto roof, reasonable. Dennis, Ext. 4259 or 736-2534 eves.

BASS FIDDLE- in playable or restorable cond; also table saw. Peter, Ext. 2116.

DOG HOUSE - for cold hound, medium to lg. Kevin, Ext. 4901 or 924-7283.

RUG - 12x15 in good cond, any color. Jeff, Ext. 4812.

CAT CARRIER CAGE - to borrow or rent, cheap. Must meet airline spec's. Cat is moving. Andy, Ext. 2948 or 722-3168.

BUSINESS ASSOCIATE - flexible hours, excel income potential. No investment required. Mr. B. 698-5861 after 7:30 p.m.

Car Pools

BROOKHAVEN HAMLET - driver wanted for existing car pool. Ron Manning, Ext. 3887.

SYOSSET/PLAINVIEW - areas, start or join. Peter, Ext. 2345 or WA 1-4623 after 6 p.m.

E. PATCHOGUE/BELLPORT AREA - one additional member needed 8:30 to 5:00 p.m. shift. Bob, Ext. 2388.

CORAM - driver wanted to join established car pool from La Bonne Vie Apts. Dennis, Ext. 4259 or 736-2534 eves.

Ads left out of this issue due to lack of space need not be re-submitted to appear in next week's issue. Please note that ads may not be more than 15 words long and must be received in the Bulletin office by 4:30 p.m. Friday, for inclusion in the following week's Bulletin.

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.