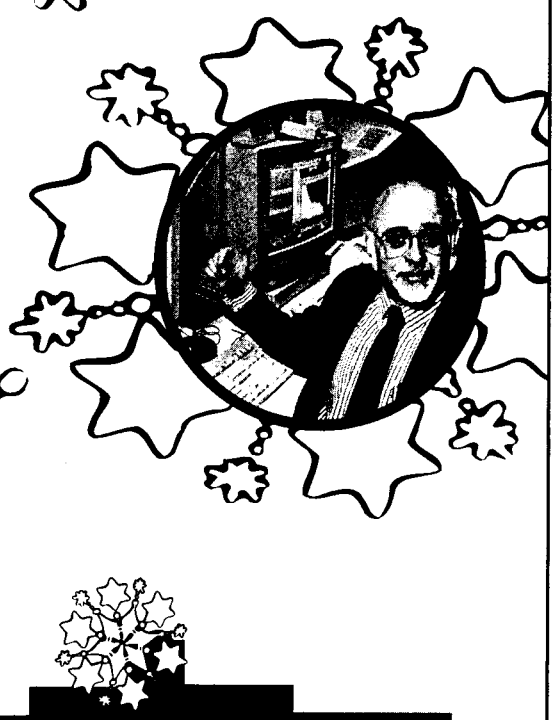
BROOKHAVEN BULLETIN

Vol. 48 - No. 49 December 23, 1994

BROOKHAVEN NATIONAL LABORATORY



Season's Greetings

VIPs Feted for Years of Service

There were 197 Very Important Persons (VIPs) invited to the 1994 Service Award Reception held in the Brookhaven Center on the evening of December 6. These VIPs included three employees who marked 45 years of Laboratory service during the past calendar year, 11 who realized 40 years at Brookhaven in 1994, another 26 who observed 35th anniversaries, 57 who completed 30 years at the Lab, and 37 for whom 1994 was their 25th anniversary year at BNL. Other VIPs included 49 Brookhaven employees who have between 36 and 39 years of service, 11 who have been with the lab between 41 and 44 years, two — Andrew Brems and Lewis Friedman — who have attained 46 years of BNL service, and one — Bernard Manowitz — who has been here throughout the 47 years that the Lab has been in existence.

Photos by Roger Stoutenburgh

In Memoriam

James Donald Cassidy, a senior technical specialist in the Department of Advanced Technology (DAT), died suddenly of a heart attack on December 6. He was 55.

Since first coming to the Lab on February 4, 1963, Cassidy served BNL nearly continuously through electrical and instrumentation work on many different projects. Most recently, he worked in the Department of Advanced Technology's Environment and Waste Technology Center as the main systems operator on the polyethylene encapsulation project led by Paul Kalb.

"Don was extremely versatile, had a lot of talent and was very bright," said Kalb. "He was also very friendly and got along with everyone, both personally and professionally."

In Kalb's lab, Cassidy found himself working in the same building — 830 — where he began his BNL career.

His first six years at the Lab were spent as an advanced technician in the Department of Nuclear Energy's High Intensity Radiation Development Laboratory. There, while helping to develop cobalt-60 sources for food irradiation and other purposes, he rose to the title of technician, then technical specialist.

In January 1969, he moved to the Department of Applied Science (DAS), where he was made senior technical specialist in July 1970. During this time, Cassidy was also active in the Brookhaven Employees Recreation Association's softball leagues.

In May 1972, Cassidy went to the Biology Department to help assemble the Scanning Transmission Electron Microscope; then, in February 1979, he transferred to the Alternating Gradient Synchrotron Department. Although he left BNL in June 1981, he returned in April 1985 as a guest research assistant at the National Synchrotron Light Source, responsible for the operations and maintenance of the Naval Research Laboratory's beam line X24C. Another separation in August 1990 lasted until his rehiring as a senior technical specialist in DAT in May 1992.

Cassidy, a resident of Holbrook, is survived by eight children and five grandchildren.

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The following retirees passed away recently:

Joseph Wojziechowitz, who retired from the Central Shops Division as a helper A on December 15, 1980, died on November 16. He was 76 years old. He was with the Lab for 21 years, having started in the Motor Vehicles Maintenance & Operations Group as a janitor on September 8, 1959.

William Gallagher, who was a Lab custodian with the Plant Engineering Division when he retired on August 2, 1985, died on November 28, at the age of 71. His 23 years at BNL began on February 19, 1962, when he joined the Plant Maintenance Division as a janitor.

Arrivals & Departures

Arrivals

James D. Happell ..... App. Science
Richard W. Leigh ..... App. Science

Departures

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

Margaret D. Alexoff ..... Cent. Shops

Blood Lines

Blood Drive Chair Susan Foster thanks all those who donated blood at the recent BNL Blood Drive, resulting in a total collection of 424 pints. To those who pledged before November 30, special thanks, and congratulations to the following five employees. Their names were drawn at random, so each won a $50 dinner certificate at a Long Island restaurant: Nelson Cause, Plant Engineering (PE) Division; George Elias, PE; Carol Joyce, Director's Office; Ben Ocko, Physics Department; and Michael Seidman, Management Information Systems Division.

Inside Info

Brookhaven National Laboratory has been named Company of the Month for January 1995, by the Radisson Hotel Islandia. In recognition of this designation, Museum Programs of the Public Affairs Office will have an exhibit in the hotel lobby throughout the month, which all are welcome to visit. The hotel is located at Exit 58 off the Long Island Expressway, at 3635 Express Drive North.

These Retirees Are All Winners

In November's Special Issue of the Brookhaven Bulletin that listed the names and addresses of BNL retirees, we announced a contest and stated that the first three retirees to submit a correct entry would receive a gift from the Science Store. When it became clear that we had three entries even before the Bulletin arrived in off-site mailboxes, we decided to increase our winners to all the replies we received by December 16. So, weather meters from the Science Store are now on the way to:

- Robert Baldwin, Fort Pierce FL
- Gerald Dennehy, Orient NY
- Anthony Di Sena, Mastic Beach NY
- Gerhart Friedlander, Smithtown NY
- Claire Hull, Tacoma WA
- Donald Marrs, Commack NY
- Anthony & Madeline Meo, Patchogue NY
- Gerry Morgan, Patchogue NY
- Howard Olsen, Shoreham NY
- Frederick Pallas, Patchogue NY
- Charles Porcaro, Altamonte Springs FL
- Anna Potter, Patchogue NY
- Angelo Rafaniello, East Northport NY
- Rita Rech, Mastic NY
- Frances Scheffel, Sayville NY
- John Scrofani, Venice FL
- Edwin Szczepanik, Springhill FL
- Robert Tallon, Miller Place NY
- Jeannette Thiede, Potsdam NY
- Philip Thomason, Center Moriches NY
- Charlie Tomesch, Medford NY

We also miscalculated the contest's answer. We asked for the names of seven retirees living in six foreign countries, one each in Denmark (Ole Hansen), Finland (Alfred Bjork), Germany (John Dorr), Italy (Hank Hseih) and the Marshall Islands (Jenuk Kabua), and two in Canada (John Bittner and Arthur Harris). But, as Gerry Morgan was the first to point out, there is another retiree residing outside the U.S. — Eliot Shaw, in Switzerland.

Congratulations to all our winners!

BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

As 1994 draws to a close, the Editor and editorial staff of the Brookhaven Bulletin gratefully acknowledge the indispensible, year-round contributions of the following people:

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WISEly Building on Their Education

A group of 30 Suffolk County girls, selected for their aptitude in science and math, recently began a three-year program that will give them practical research and professional experience during frequent afternoon sessions with staff at BNL, Cold Spring Harbor Laboratory and the State University of New York at Stony Brook.

Called WISE, for Women in Science Excel, the program seeks to encourage girls to aim high in the scientific professions, countering negative messages from society or within that cause some to underachieve or drop out.

Roger Stoutenburgh

Time for timers! As part of the WISE program, these tenth graders, soldering irons in hand, are building electronic timers under the guidance of BNL's Chu Ng (second from left) and Hue Anh Pham (third from right).

BNL Women's Programs Coordinator Victoria McLane helped draft the grant proposal for the National Science Foundation funding that supports the WISE program, along with project director Wendy Katkin, special assistant to Stony Brook's provost.

Other BNLers who, with their supervisors' support and approval, are contributing their time and expertise to the program include: Kathleen Barkigia, Department of Applied Science; Carol Creutz, Chemistry Department; Nina Leonhardt, Office of Educational Programs; the Safety & Environmental Protection Division's Kathleen McIntyre, who serves as on-site coordinator, and Jan Naidu; Chu Ng, Physics Department; and Hue Anh Pham, Relativistic Heavy Ion Collider Project.

If you have a project idea for the students, call McIntyre at Ext. 5868.

On the Cover . . .
'Tis the Season to Look Back

Snowflakes fall softly on the Laboratory on our holiday cover, which demonstrates the graphic artistry of Alan Schmidtchen, Photography & Graphic Arts Division. The photos inside the snowflakes highlight some of BNL's activities and successes reported in the Brookhaven Bulletin during 1994 (see key at right):

1. In August, the high-level task force appointed by Energy Secretary Hazel O'Leary to evaluate the national laboratories and chaired by Robert Galvin (right) of Motorola, Inc., spent a day on site in discussion with senior management, including BNL Director Nicholas Samios (left).

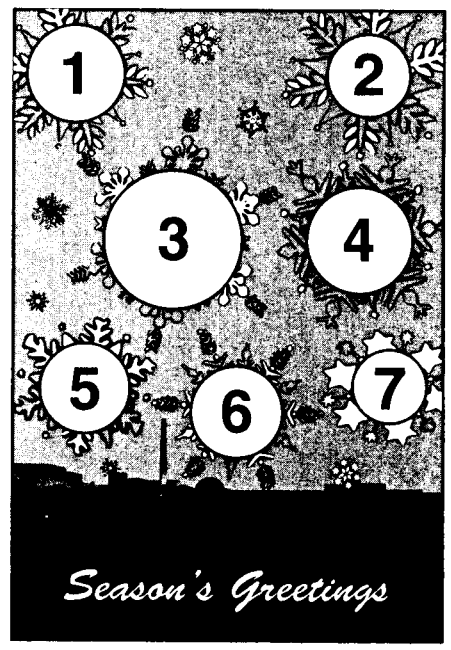
2. In November, the international solar-neutrino research collaboration known as GALLEX, which includes several BNL scientists, announced results confirming their previous findings that only about 60 percent of the number of solar neutrinos predicted by theory arrive on Earth.

3. In the tunnel for the Relativistic Heavy Ion Collider (RHIC) on August 5, RHIC Project Head Satoshi Ozaki (center) addressed BNLers gathered to see the first of 373 superconducting dipole magnets lowered onto its stand — a major milestone on the way to RHIC's commissioning later this decade.

4. One of the 20 new Cooperative Research and Development Agreements that BNL signed this year was with Energy Conversion Devices, Inc., to develop materials for better batteries, a task falling to a group that includes: (from left) Myron Strongin, Mark Ruckman and Evelyn Gallego, all of the Physics Department.

5. Over 350 students and teachers participated in summer research programs at BNL this year, and one of them was Shakeeb Hamud of Somalia, shown here examing cell cultures in a Medical Department lab.

6. Three ground-breaking ceremonies took place at BNL this year: The Structural Biology addition to the National Synchotron Light Source got under way on April 14 (pictured); construction for the Magnetic Resonance Imaging facility, part of the new Brookhaven Center for Imaging and Neurosciences, began on September 22; and the first shovelsful of earth were dug for the Chemistry Department's new Pulse Radiolysis Facility on October 26.



7. During a February demonstration at Brookhaven of the new Fiber Optic, Island-Wide Super High-Speed Network, or FISHnet, linking BNL with the State University of New York at Stony Brook, Lucien Wielopolski, a physician at both institutions, was able to communicate with his colleague at the university and view the image of a patient's brain being taken at Stony Brook — all via computer.

Software Demo

Harris Electronic Design Automation, Inc., will present a seminar on Tuesday, January 10, at 9 a.m., in the seminar room of Bldg. 515. Computing and Communications Division. Interdisciplinary electronic-design automation will be discussed, and ED Anavigator, ED Avalidator and EDAassimilator will be demonstrated.

For more information or to receive literature on this presentation, call Pam Mansfield, Ext. 7285, or E-mail pam1@bnl.gov.

Holiday Notes & Schedules

In observance of Christmas and New Year's Day, the Lab will be closed for a half day on Friday, December 23, and the entire days of Monday, December 26, and Monday, January 2. As a result, the following schedules will be in effect:

- **Brookhaven Bulletin** — There will be no Bulletin next week, Friday, December 30.
- **Credit Union** — The Teachers Federal Credit Union will be open the usual hours on Friday, December 23, but close on Mondays, December 26 and January 2. The automatic teller machine in the foyer of Berkner Hall will be open throughout the holidays.
- **Food Services** — The Cafeteria will offer full service until 1 p.m. Friday, December 23, and weekend service from 9 a.m. to 2 p.m., on Saturday and Monday, December 24 & 26; it will be closed on Sunday, Christmas Day. The next week, the Cafeteria will offer weekend service, on Saturday, December 31, and Monday, January 2; it will be closed on Sunday, New Year's Day. The Brookhaven Center Club will be closed Friday, December 23, through Sunday, December 25, and Saturday & Sunday, December 31 & January 1. On Mondays December 26 and January 2, it will be open from 5 to 9 p.m. The vended food service in Bldg. 179 and 912 will be available at all times and serviced regularly.
- **Gymnasium & Pool** — The gym will be closed from after lunchtime hours on Friday, December 23, through Monday, December 26; and again from Saturday, December 31, through Monday, January 2; it will be open during the work week, and the usual schedule will resume Tuesday, January 3. The pool will be closed for special maintenance from Friday, December 23, through Tuesday, January 3, when the new, three-month pool season will begin (see separate notice).
- **Recreation Building** — The Recreation Building in the apartment area will be closed through Monday, January 2. Regular hours will resume on January 3.
- **U.S. Post Office** — The Upton Branch of the U.S. Postal Service will close at 3 p.m. on Friday, December 23. It will be closed all day on Mondays, December 26 and January 2.

Pool Schedule

The new, three-month schedule at the swimming pool will begin on Tuesday, January 3, and end on Friday, March 31. Tickets may be purchased at the pool during open hours:

Open Hours

- **Monday through Friday**

11 a.m. - 1:30 p.m.	employees only
1:30 p.m.- 2 p.m.	reserved for speed swimming and training
2:15 p.m.- 3:15 p.m.	children's lessons
3:45 p.m.- 9 p.m.	employees, families, guests*

- **Saturday & Sunday**

1 p.m. - 5 p.m.	employees, families, guests*

Fee Schedule

- **Daily Admissions**

employee or family member	$2.00
guest	$3.00

- **Season Tickets** (fees not prorated)

Individual	$40.00
Family	$50.00

Guest ruling: One guest per employee is permitted without prior arrangement. Advance arrangements for more guests, up to five per employee at one time, must be made at the Recreation Office, Personnel Division, Bldg. 185. Guests must be accompanied by the sponsoring employee.* **The pool is closed on all Lab holidays.

Bowling

Red and Green League

R. Mulderig Jr. bowled a 254/252/237/743 scratch series, R. Raynis 246/216/617 scratch, J. Griffin, 246/208/649 scratch, A. Pinelli, 234/229/606 scratch, R. Mulderig, Sr. 227/208/606 scratch, A. Warkentien 226/200, E. Sperry IV 213/213, R. Eggert 204/202, K. Riker 257, K. Asselta 224/602 scratch, J. Goode 220, H. Arnesen 215, R. Larsen 206.

Purple and White League

M. Reynolds 219, K. Batchelor 217, E. Sperry III 209, A. Wynkoop 208, S. Logan 205, E. Meier 203, J. Addessi 202, J. Biamonte 201, P. Callegari 200, R. Raynis 199/186/180, E. Sperry IV 198/197/182, M. G. Meier 191, R. Picinich 188, M. DiMaiuta 174, S. Smith 174, K. Conkling 172, L. Farmer 171.

Volleyball

Standings as of December 20

Open League		League 1	
The Men and Me	28-8	Rude Dogs	20-7
GTEAM	24-12	Network News	17-10
Farside	22-14	Koopas	18-12
The Roofing Co.	15-21	Underdogs	10-20
Bud Men	1-35	Safe Sets	7-23
League 2		**League 3**	
Fossils	23-7	Silver Bullets	21-3
Safe Sets II	20-10	Take Five	18-6
Net Wits	19-11	Upton-Ups	16-8
Mon. Night Live	18-12	High Volley'em	15-9
Nuts & Bolts	14-16	DO-DAT	9-15
Spiked Punch	12-18	For Play	9-15
Jolly Vollies	11-19	Harlem Knights	4-20
Night Court	3-27	Bonnie's Bombers	4-20

Cafeteria Menu

Monday, December 26
Snack bar service - 9 a.m. to 2 p.m.

Tuesday, December 27	
Soup: Chicken noodle	.90/1.20
A la Carte: Sausage & pepper calzone	3.50
Fitness: Macaroni & cheese	3.65
Deli: Virginia ham	3.20
Grill: Denver omelet	3.30
Wednesday, December 28	
Soup: Sausage/tortellini minestrone	.90/1.20
A la Carte: BBQ spareribs	4.25
Fitness: Spinach & feta quiche	3.65
Deli: Roast beef	3.20
Grill: Meatball hero	3.30
Thursday, December 29	
Soup: Senate bean	.90/1.20
A la Carte: Bonnie's chicken	3.85
Fitness: Pork chops	3.85
Deli: Corned beef	3.20
Grill: Ham & cheese	3.30
Friday, December 30	
Soup: New England clam chowder	.90/1.20
Display Cooking: Chicken Caesar	4.65
Fitness: Pasta primavera	3.65
Deli: Roast turkey	3.20
Grill: Tuna melt	3.30

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action plan, selections are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

SCIENTIFIC RECRUITMENT - Doctorate normally required. Candidates may apply directly to the department representative named.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in physical or biological oceanography, to participate in the Joint Global Ocean Flux Arabian Sea project, the goal of which is to understand the seasonal variations in the biological and bio-geochemical cycles under the strong monsoonal forcing. Familiarity with acoustic Doppler current profilers and processing large quantities of data is preferred. Contact: Charles Flagg, Department of Applied Science.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry, with experience in analyzing trace levels of gases using HPLC, GC and mass spectrometry. Program involves laboratory and field studies of reactions important to atmospheric transformations regarding oxidant formation and hydrocarbon degradation. Contact: Yin-Nan Lee, Department of Applied Science.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 2479. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, significant secretarial experience, and excellent written and verbal communication skills. Knowledge of WordPerfect and other applications, such as Lotus 1-2-3, dBase, Harvard Graphics etc., is also required. Must show resourcefulness in performing non-routine tasks and in problem-solving and have strong organizational skills with an aptitude for accuracy. Responsibilities will include carrying out skilled and complex secretarial duties for the Budget Office. (reposting) Budget Office.

DD 3801. HAZARDOUS WASTE MANAGEMENT TECHNICIAN - Requires an AAS in chemistry, engineering, physical science or equivalent experience. Responsibilities include, but are not limited to, the pickup, packaging, storing and bulking of hazardous waste. Familiarity with RCRA regulations and/or DOE Order 5820.2a desirable. Additional responsibilities include completing and maintaining certifications required for the operation of this facility. Safety & Environmental Protection Division.

DD 0049. BIOLOGY ASSOCIATE POSITION - (term appointment) Requires a BS/MS in science or engineering. Experience with gel electrophoresis, electronics, lasers, computers, component fabrication or analytical techniques desirable. Responsibilities will include the development and characterization of new approaches to sequencing DNA by gel electrophoresis. Will participate in weekly research meetings and seminars. Protracted and/or weekend hours and travel may be required. Biology Department

NS 2898. FIRE PROTECTION ENGINEER - (term appointment/half time) Requires a BS in fire-protection engineering or a related engineering discipline, excellent communication skills and several years' experience in highly protected risk and life-safety code evaluations (NFPA 101). Must be able to design, develop and conduct loss prevention programs with minimal supervision. Safety & Environmental Protection Division.

NS 6440. ACCOUNTANT POSITION - Requires a bachelor's degree in accounting, finance or business administration, two years of professional accounting experience and knowledge of GAO principles. General ledger bookkeeping background is essential, along with demonstrated communication and interpersonal skills. Under minimal supervision will analyze complex accounting transactions, prepare financial reports, assist in special studies and projects, and review vouchers and make payments. Fiscal Division.

NS 2060. ENGINEERING POSITION - (term appointment) Requires a BSEE, with MS preferred, and excellent computer skills. Proficiency with QuickBasic and C and experience with graphic programs running on DOS and UNIX platforms are necessary; excellent analytical and organizational skills are desirable. Responsibilities will include developing and implementing new methods for measuring electronic properties of semiconductor detectors. Physics Department.

MK 9999. COMPUTER NETWORKING POSITION - Requires a BS degree, preferably in computer science, or equivalent and, a minimum of five years' networking experience. Experience with TCP/IP, DECNET, IPX and Appletalk protocols over Ethernet and FDDI networks required. A background in building and managing heterogeneous networks of workstations, large systems and PCs necessary. Customer service orientation, knowledge of UNIX, and network-management system experience are required; knowledge of the Internet is highly desirable. Responsibilities include the design, planning, installation and operation of a 2000+ node LAN/WAN network. Computing & Communications Division.

Motor Vehicles & Supplies

90 MITSUBISHI ECLIPSE - 1.7L, a/t, ac, am/fm cass., 37k mi., clean, $5,400. Ken, Ext. 5110.

89 NISSAN 4x2 PICKUP - 5-spd., 42k mi., am/fm radio, bedliner, good cond. Marie, Ext 7678.

88 FORD TAURUS WAGON - V-6, ac, am/fm stereo, p/s, p/b, cruise, 98k mi., new tires, shocks, rebuilt trans. 1 yr., v.g. cond. Ext. 3963 or 928-0516 eves.

87 OLDSMOBILE REGENCY BROUGHAM - 75k mi., 4-dr., sunroof, white w/leather int., $4,900. 744-9802.

86 CIVIC - 134K mi., clutch, brake, tires, CV joints, exhaust, timing belt, starter, all ~2 yrs. old, must sell, owner leaving country, $1,000. Dave, Ext. 2686.

85 PLYMOUTH - s/w, 4-dr., 4-cyl., white, ac, a/t, good cond., ask. $900. Bawa, Ext. 3357 or 474-2071.

85 FORD LTD STATION WAGON - high mi., blue, ac, luggage rack, am/fm cass., need bushing on driver's door, runs well, $500. Betty, Ext. 2551 or 758-2653.

84 VOLVO WAGON - good body, tight eng., new tires, brakes, shocks, rear susp. pnots., a/t, o.d., 100k mi., $400. Ext. 3401 or 744-6229 or SWEET@BNL.GOV.

84 FORD WAGON - full-size, very low mi., V-8, a/t, ac, cruise, w/leather int.; '84 Mazda pickup, 5-spd., 91k mi., runs well, $800. Bob, Ext. 7921 or 749-1948.

84 FORD E150 VAN - 300 c.i. 6-cyl., 3-spd., o.d., trans., p/s, p/b, excel. mech. cond., some rust, good work van. Bill, 281-6498.

83 DODGE CHALLENGER - p/s, ac, stereo, moonroof, rebuilt carb., low mi., good cond., passed inspection, best offer. 632-2508.

82 CADDY DEVILLE - burgundy, 40k mi. on 2nd engine, $1,300 neg. Bert, Ext. 5156 or 581-4436.

80 CHEVY PICKUP - rebuilt eng. & tranny, w/ladder racks & storage boxes, good cond., must sell, asking $1,800 neg. Rich, Ext. 5284 or Evan, 924-4237.

76 CHEVY CAMARO 350 - V-8, $850 neg.; tires, 225/70R15, 4 Dunlop-tread, $60/4; 225/70R14, Goodyear Eagle ST radials, $35/2. Ron, Ext. 4553 or 744-1194.

69 MUSTANG - conv., many new parts, low orig. mi., good cond., $4,200. Tirre, Ext. 3288 or 281-0360 eves.

FORD F150 PICKUP - 4wd, 8-cyl., bedliner, tinted glass, chrome, 32" wheels, a/t, 103k mi., detachable stereo, 4-speakers, $6,500. Bill, 878-4356.

WHEELS - 2, for Chrysler Aries or similar, w/P175/85R13 tires, good for spares. Bill, Ext. 3698.

TIRES - 1, P215/70R14, Firestone, excel., $25; 2, P225/75R15, Goodyear, brand-new, orig. $175, now $40 ea. 698-9274.

PARTING OUT FORD F150 4x4 - front nose, 351M motor, new rear, hood, door, transfer case, steering box. Wayne, Ext. 2964.

CAR COVER - mid-size, made of durable fabric, excel. cond., $25. David, Ext. 5207.

Furnishings & Appliances

BED - captains's, w/2 drawers under bed, good cond., $40; bed headboards, full-size, $25/ea. John, Ext. 3292 or 286-1348.

BEDROOM - chest, dresser, mirror, night stand, soft contemporary, good cond., asking $135. 473-7667.

CARPET STEAM MACHINE - Regina, like new, hardly used, $60. 929-3235.

CURIO CABINET - walnut, excel. cond., $125; changing table, white, $25. Ann, Ext. 7611.

DESK - laminated oak finish, 1 center drawer, 3 side drawers, v. g. cond., 49½"x19¾"x29¼"H, $30. Mike, 821-8486.

DINING ROOM - early American, trestle table, hutch, server, 2 armchairs, 4 side chairs, excel. cond., ask. $1,500. Ext. 2949 or 427-2435.

DINING ROOM - Lane, oval table, 60"x38", w/2 leaves, 6 chairs, hutch, contemp., $200. 331-4011 after 5 p.m.

DISHWASHER - port., GE, 1 yr. old, $200; 12x9 Karastan rug, beige/rose pattern, $400. Culwick, 968-5251.

REFRIGERATOR - freezer, 18 cu. ft., white, excel. cond., 3 yrs. old, $300. Corinne, Ext. 3662.

SOFA & CHAIR - Henry Link, white wicker, green cushions, like new, $300. Steve, Ext. 3822 or 929-6527.

TABLES - end, coffee table, oval table, dark walnut, like new, $100; wrought iron patio set, 4 swivel chairs, Formica top table, indoor, $200. Marty, Ext. 2214.

Tools, House & Garden

AIR CLEANER - electronic, Friedrick model C-90, $225. Ruppert, Ext. 3254.

CHAIN SAW - elec., $50; wood lathe, 12" Copy Crafter, w/tools; Sears Craftsman toolbox, roll-away, $50; elec. edger, $40; power painter. Joe, 924-7476.

GENERATOR - 4 kW, 120 & 240 volt outputs, used 1½ hrs., $250; 16' Hobie Cat, w/1.2-h.p. kicker, $1,200. Ext. 3922.

HUMIDIFIER - Presto, auto., 3-spd., refill gauge, $35; dining room set, glass-top table w/black base, 4 black upholstered chairs, $350. Carter, Ext. 7599.

LAWN TRACTOR - Ariens, w/snow plow, grass catcher, 32" cut, 8 h.p., excel., $675. Don, 581-7656.

MITER SAW - Black & Decker, 2-h.p., 9" blade, $85. Jim, Ext. 4026 or 298-9748.

Sports, Hobbies & Pets

BICYCLES - 24", 10-spd., Huffy, $20; 20" Huffy, $10; 12" scooter, $7; Hedstrom tricycle, $5; pedal car, $2; hich chair, white wood, excel. cond. Holly, Ext. 5925.

FISH TANK - 70-gallon, w/all access., $200 or best offer. 588-9325.

MOUNTAIN BIKE - Diamond Back Ascent EX, new seat, bottom bracket, hubs, rims, $350; pinball machine, Williams Skylab, $250. Ext. 3884.

PUPPIES - Dalmation, shots, good bloodlines, healthy, 8 wks. old. 924-8558 after 5 p.m.

SKIS - Olin, 180cm, w/Salomon 444 bindings, runaway straps, great for beginner or second pair, $20 neg. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

SKIS - Spalding Formidable, 180, excel. cond., asking $80; hutch, dark pressboard, glass doors, $40; microwave cart, $25, both excel. cond. 878-1617.

SCUBA REGULATOR - Ocean Edge, model R6100, never used, orig. $260, sell for $175. Pete, Ext. 4100.

TENNIS BALL HOPPER - excel. cond., $20. Susan, Ext. 7647.

Audio, Video & Computer

COMPUTER - Lisa w/Mac Plus software, 40 MB HD, software, games, $500; Mac 512 w/ext. drive, $400; ImageWriter printer, $150 neg. Don, 821-3320.

GAMES - for Super Nintendo, $25-$35. Ext. 7505.

PRINTER - Panasonic KX-P1124, 24-pin, multi-mode. Mike, Ext. 7772 or 369-3307.

TV - Toshiba, 1990, stereo, 21", remote, $110. Ext. 3069.

Miscellaneous

BASEBALL CARDS - hockey, basketball, football sets, single, wax, ex-collector, everything must go, cheap, also starting line-ups. 289-9152.

BOOTS - men's, Western, leather boots, 10½D, like new, $50. Pat, Ext. 5406.

CHRISTMAS TREE - Mountain King, 8', easy assembly, excel. cond., $60. Tracy, Ext. 4422.

CHRISTMAS TREE STAND - brand-new, never used, still in box, $8. Lloyd, Ext. 5225.

CRIB - solid oak, like new, $75. 399-1258.

ENCYCLOPEDIA - Grolier Academic American, 1990 edition, 1991-94 yearbooks, like new, orig. $1,400, asking $500. Frank, Ext. 2022 or 399-3446.

LIMITED EDITION PLATE - *Aida*, LaScala Grand Opera Collection, 1st Ed., 1979, ivory alabaster, $45. Pat, Ext. 2452.

MAGAZINES - *Mother Earth*, 1980-1986, $20. Victor, Ext. 2395.

TICKETS - 2-way, MacArthur to W. Palm Beach, Fla., leave 1/15, return 1/29, Carnival Air, non-stop, $225 or best offer. Charlie, Ext. 7264.

TICKETS - Theatre III, limo service, restaurant, gift certificates, all 20% off issued price. Tom, 736-6691.

WHEELCHAIR - Everest & Jennings, wheel lock, adjust. foot & leg rest, 3 yr. warranty, E-Z lite universal, $500. Sydell, Ext. 3389.

Boats & Marine Supplies

ANCHOR - 35 lb. CQR, $200 firm. Bill, Ext. 2434.

Free

DOG - mixed terrier, 3-yr.-old female, good w/children, w/6'x6'x10' cage & dog house. Darlene, Ext. 4685.

KITCHEN TABLE - metal, w/ 4 chairs. Frank, Ext. 3120.

Lost & Found

LOST - Suncloud sunglasses in area of Brookhaven Center or Cafeteria on Thurs. 12/8. Sue, Ext. 2888.

Car Pools

STONY BROOK - Smithhaven Mall, Rt. 347, Nicolls Road area. Ext. 5080.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, religion, sex, age, national origin, disability or veteran status of the applicant.

For Rent

CALVERTON - 2-bdrm. condo, 5 appl., ac, upper deck, patio. Ext. 7595.

CENTER MORICHES - small 2-bdrm., on water, dock, $850/mo. + util. 10 mi. from Lab. Kelvin, 878-4304 after 6 p.m.

CENTER MORICHES SOUTH - 1-bdrm. apt., 2 priv. ent., full bath, lg. bright rms., off-street parking, use of yard & w/d, fully furn., cable, walk to all, nonsmoker(s), avail. Jan 1, $650/all neg. 878-6760.

FARMINGVILLE - new 3-rm. apt., priv, ent., w/d, no pets/smoking, $700/mo. incl. util. 696-8085, leave message.

MIDDLE ISLAND - 2-bdrm. ranch co-op, l/r, d/r, kit., cac, gas heat, w/w, laundry rm., all appl., pool, clubhouse, 10 min. to Lab, $800/mo. + util., 1 mo. sec., no pets, avail. now. Joe, Ext. 7496.

MILLER PLACE - 2-bdrm. ground-floor, priv. ent., 15 min. from Lab, nonsmoker, new everything, clean, $850/mo. incl. all. Doan, Ext. 7535 or 345-0462.

N. SHIRLEY - 1 room in a 2-bdrm. house, avail. 12/1-3/1/95, $350/mo. incl heat & water, 10 min. to Lab. Hasan, 345-6949.

PORT JEFFERSON STATION - 1 bdrm., ac, priv. front ent., quiet street, near all shopping, util. incl., $575/single, $600/double. 473-9180.

PORT JEFFERSON VILLAGE - large furn. room, share bath, nonsmoker, cable, 20 min. to Lab, $100/week. 473-6432.

SELDEN - 3-bdrm. ranch, l/r, d/r w/deck, kit., full bath, fenced yard, quiet neighborhood, $1,000/mo. + util. John, 732-7568.

WADING RIVER - lg. studio apt., full kit., quiet neighborhood, driveway parking, 15 min. to Lab, $500/mo. incl. util. 929-4465 eves.

WADING RIVER - 1-bdrm. apt., ac, w/w, priv. ent, balcony & parking, single nonsmoker, no pets, $600/mo. incl. all. Ruth Ann, Ext. 7774 or 929-6235.

WADING RIVER - cozy 3-rm. apt., w/eik & bath, single nonsmoker pref., no pets, avail. 2/1 or possibly sooner, $500/mo. incl. all. Janet, Ext. 2345 or 929-3910.

WESTHAMPTON BEACH - 4-5 bdrm. Victorian on 1 acre, 1½ baths, mod. kit., gar., shed, walk to schools, $900/mo. Dave, Ext. 4289.

YAPHANK - 2-bdrm. townhouse, garage, fp, fin. bsmt., pool, tennis, 5 min. to Lab, $950/mo. + util. Ann, Ext. 7611 or 924-1604.

YAPHANK - 1-bdrm. townhouse to share, split util., 5 min. to Lab, pool, tennis. Arlean, Ext. 2387.

MT. HOLLY, VT - 2-bdrm. A-frame, l/r, kit., 1 bath, 10 min. to Okeano Mt., 25 min. to Killington Mt., avail. through March incl. holidays. Tom, Ext. 5899.

VERMONT - ski house near Mt. Snow, sleeps 7, $125/night, 3 night min. Lloyd, Ext. 5225.

LAKE PLACID, NY - 3-bdrm. condo in town, 2 baths, walk to Village, skating oval, arena, restaurants, ski Whiteface, magnificent views of Lake Placid and Whiteface. Tom, Ext. 4631 or 744-0681.

CATSKILLS - 3-bdrm. chalet w/sleeping loft, fully furn., near Hunter and Windham Mts., great for skiing. Kay, Ext. 4501 or Bea, Ext. 3642.

HILTON HEAD, SC - 2-bdrm. condo, 2 baths, sleeps 6, fully furn., tennis, beach, golf nearby, $350/week. Guy, Ext. 3147 or 689-5378.

KEY WEST, FL - April 22-29, condo on water, sleeps 2, kit., pool, priv. beach, gym, marina, boat rentals, hot tub, w/d, tiki bar, walk to town. Sheryl, Ext. 7716.

FUERTEVENTURA, CANARY ISLANDS - 1-bdrm. timeshare apt., near windsurfing, 2 weeks, Feb. 13-27, $300/all incl. except travel. Rick, Ext. 5886.

For Sale

BRIGHTWATER FARMS/BAYSHORE - 3-bdrm. Col., eik, fd/r, l/r, den, laundry, 2 full baths, bsmt., Andersens, new driveway, walks, fenced patio, 35 min. to Lab, $135,000. Bill, Ext. 2762 or 665-3782.

CENTER MORICHES - 4-bdrm. Colonial, 13'x22' l/r w/fp, 10'x17' d/r, eik, TV/laundry rm., full bsmt., OHWH, att. gar., town water, 1½ baths, walk RR, schools, 6 mi. to Lab, ask. $160,000. Marilyn, Ext. 2259.

E. MORICHES - 3-bdrm. ranch, 1 acre, OHWH, det. gar., 1 bath, full bsmt. Mike, Ext. 4028 or 878-2571.

EAST MORICHES - 2-bdrm. condo on Moriches Bay w/ocean view, bsmt., gar., boat slip, 3 tennis courts, pool. Platner, Ext. 3922.

HAMPTON BAYS, NY - Shinnecock Hills, water view, 3-bdrm. 2-story contemp., 2 baths, fp, ask. $227,900. 728-5019.

LAKE PANAMOKA - new 3-bdrm., 2 baths, full bsmt., OHWH, vaulted ceiling, must sell, 10 min. to Lab, ask. $94,000. Tom, 878-5854.

RIDGE - horse lover's dream, 4-bdrm. Cape Cod, 3 baths, fd/r, 2 lg. l/r, full kit., 2-acre pasture, $219,990. 924-3236.

RIDGE - 3-bdrm. townhouse, 1½ baths, lg. l/r, 5 min. to Lab, $69,900. 924-4734.

RIVERHEAD - 4 bdrm., 2 baths, cac, w/w, fin. bsmt., landscaped front & back, lg. gar., gas heat, city water, ⅓ acre, beach rights, $115,000. Larry, 727-1412.

ROCKY POINT - custom 3-bdrm. ranch, eik, cust. kit. cabinets, 4 appl., OHWH, w/w, city water, corner plot, landscaped, $85,000. Donald, 473-6570 after 7 p.m.

SELDEN - 2-bdrm. co-op, lg. cust. bath, Corian Jacuzzi, lg. cust. eik, l/r, d/r, w/w, cac, terr., pool, tennis, clubhouse, 2 yrs. old, $72,000. 696-5322.

TERRYVILLE - 4-bdrm. tri-level ranch, 1½ baths, l/r, d/r, eik, fam. rm. w/bay windows & sliders, well maintained, ⅓ acre landscaped w/20'x40' brick patio, shed, possible M/D, ask. $110,990. 928-7265.

WEST SAYVILLE - 3-bdrm. custom Colonial, 11 yrs. old, 1½ baths, Florida rm., maint. free, extras, ask. $138,500, will listen to all offers. 563-2889.

YAPHANK - 3-bdrm. townhouse, fin. bsmt., 2½ baths, pool, tennis, 5 min. to Lab. Arlean, Ext. 2387.

Wanted

ANCHOR - 45 lb. CQR. Bill, Ext. 2434.

DOORS - 6-panel pine, interior, assorted sizes; Hess trucks & similar gas station promotional vehicles, top $ paid. Jim, Ext. 4026 or 298-9748.

HOUSEMATE - to share lg. 3-bdrm. house, 2 baths, 5 min. from Lab, full kit., d/r, l/r, beach rights. TJ, 744-3308.

MATE FOR MALE DOG - black & white Papillion, friendly disposition. 473-6432.

RECORDS - polkas, 33⅓ or 45 rpm of any year and rock & roll, '55-65. Frank, Ext. 3120.

SKIERS - to ski Windham 1/11/95, $42 includes bus & lift. Send payment to Augie Hoffmann, Bldg. 510C.

TREADMILL - exerciser, decent cond. Ted, Ext. 2620.

VIOLIN - good cond., reasonable for young child, half size. Mike, Ext. 7861.

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste.