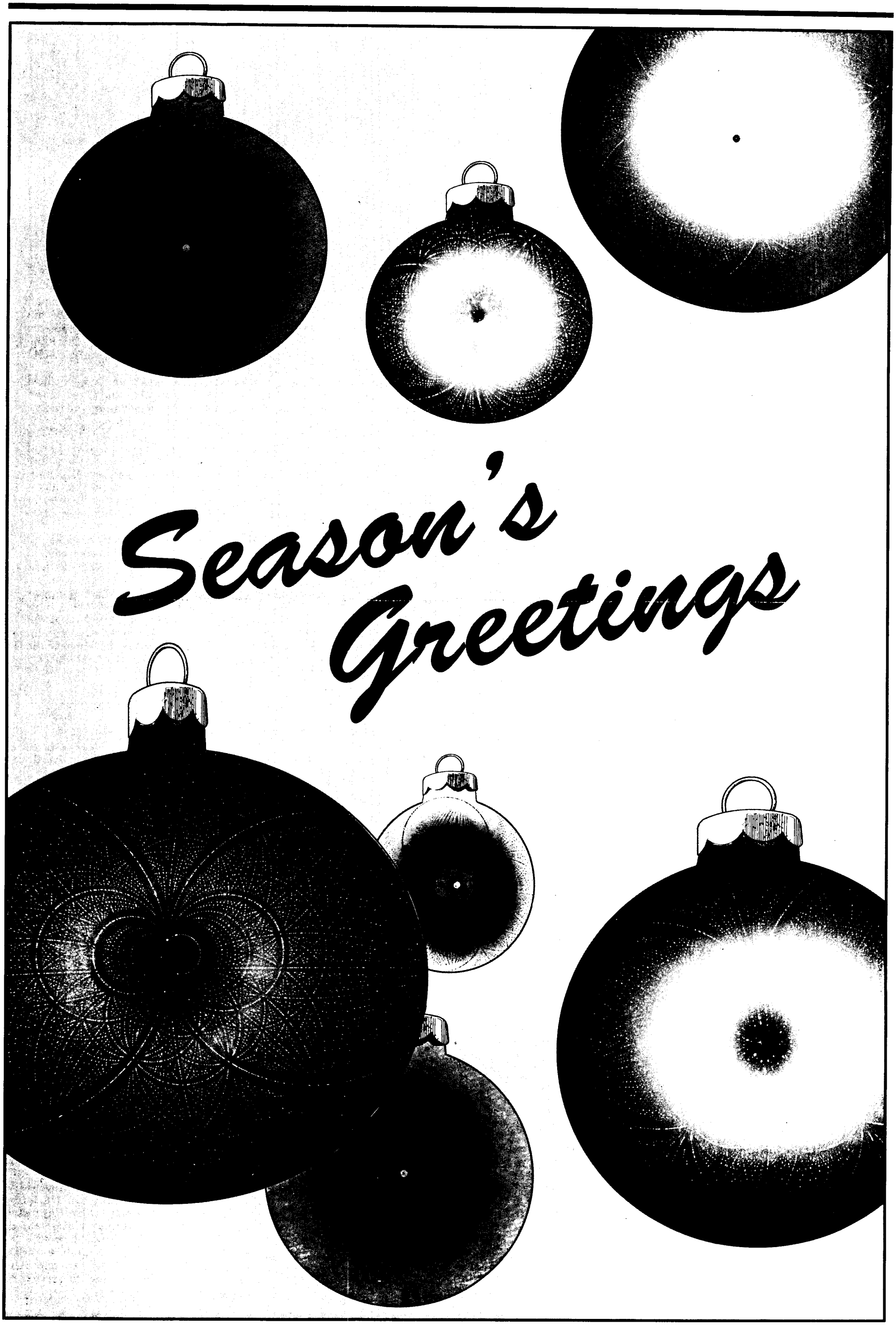
BROOKHAVEN BULLETIN

Vol. 44 - No. 49 December 21, 1990

BROOKHAVEN NATIONAL LABORATORY



On the Front Page . . .

Eat, Drink and Be Merry!

As you sit down to your traditional family meal this holiday, think about the digestive juices inside you that are rolling up their sleeves and preparing to set to work on whatever gourmet delicacies come their way.

Among these workaholics is the digestive enzyme trypsin — which is also the subject of protein crystallography studies being done by Paul Singer and Robert Sweet, Biology, along with Lonny Berman of the National Synchrotron Light Source (NSLS).

The patterns of light and dark adorning the decorations on the front page of today's Bulletin are really x-ray diffraction patterns of trypsin, which the researchers made using the white-beam Laue technique at the NSLS.

They provide a new way for the Bulletin staff and Alan Schmidtchen, Photography & Graphic Arts Division, who did the graphic design, to wish all BNLers "Seasons Greetings" — and "Bon Appetit" for the gastronomical delights ahead!

Holiday Notices

Brookhaven Bulletin

Because of the Christmas holiday on Monday and Tuesday, December 24 & 25, the Bulletin will not be published next week. Classified ad deadline for the issue of January 4 is 4:30 p.m., Wednesday, December 26.

Food Services

Food service over the Christmas and New Year's holidays will be as follows:

- **Vended food service, Bldg. 912** — Will be open at all times and will be serviced regularly.
- **Cafeteria** — Open Saturday and Sunday, December 22 & 23, for snack bar service, 9 a.m. to 2 p.m.; closed Monday and Tuesday, December 24 & 25; closed Tuesday, January 1.

Because of special maintenance in Berkner Hall, the Cafeteria will be closed on Saturday, December 29. Limited snack bar service will be available that day at the Brookhaven Center from 9 a.m. to 2 p.m.

- **Brookhaven Center Club** — Closed Sunday, Monday and Tuesday, December 23-25; Sunday, December 30; and Tuesday, January 1.

Gymnasium

During the holidays, the gymnasium will be closed Monday and Tuesday, December 24 & 25; open Wednesday through Sunday, December 26-30; closed Monday and Tuesday, December 31 & January 1. The gym will reopen on Wednesday, January 2.

Swimming Pool

During the holidays, the pool will be closed Monday and Tuesday, December 24 & 25; open Wednesday through Friday, December 26-28; closed Saturday through Tuesday, December 29-January 1. It will reopen with a new pool-pass season on Wednesday, January 2.

Teachers Federal Credit Union

The BNL branch of Teachers Federal Credit Union (TFCU), Bldg. 193, will be open to 1 p.m. Christmas Eve, Monday, December 24, and New Year's Eve, Monday, December 31.

TFCU will be closed Christmas day, Tuesday, December 25, and New Year's Day, Tuesday, January 1.

BNL Branch Manager Lisa Goodenough and her staff wish all BNLers happy and safe holidays.

Note to Employees:

Attendance at lectures, meetings and other special progams held during normal working hours is subject to supervisory concurrence.

In Stormy Weather

Listen to:

Station	Area	AM	FM
WALK	Patchogue	1370	97.5
WBAB	Babylon	1440	102.3
WBLI	Patchogue		106.1
WCTO/ WGSM	Smithtown	74	94.3
WHLI/ WKJY	Hempstead	1100	98.3
WLIM	Patchogue	1580	
WLIX	Islip	540	
WLNG	Sag Harbor	1600	92.1
WRCN	Riverhead	1570	103.9
WRIV	Riverhead	1390	
WSBH	Southampton		95.3

Or call: 282-INFO*

*Dial the letter O, *not* zero!

ADDing to BNL Service

In November, Satoshi Ozaki (seated, right), Acting Chairman of the Accelerator Development Department (ADD), hosted a get-together for the ADD employees who celebrated BNL service anniversaries in 1990. Those honored included: (seated, from left) Audrey Blake (20 years), Kurt Jellett (35), Robert Dagradi (30), Elaine Taylor (20), Charles Anderson (30), Pamela Campbell (10), Patricia Oster (25); (standing, from left) William DeVito (30), Morris Shapiro (10), Richard Jackimowicz (10), Stephen Plate (10), Joseph D'Ambra (10), Robert Gottschalk (35), Kenneth Robins (30), Fritz Dell (20), J. Garry Cottingham (40), and Robert Kehl (30). Not pictured: Harald Hahn (30), Christian Harbach (30), Patrick Thompson (10), and Thomas Wild (30).

Weathering Climate Variations

Carbon dioxide is building up in the earth's atmosphere. To predict the consequences of this increase, groups of researchers around the world have built a variety of computer models simulating processes that control the earth's climate. However, it is necessary to check the accuracy of the models. One way is by subjecting them to sets of mutually agreed on tests to assess their predictive capability.

At the Fourth Annual Climate Model Intercomparison Workshop held at Brookhaven on December 3 and 4, participants compared model variations resulting from differing methods of modeling ice and snow.

The attendees came from Australia, Canada, France, Germany, Japan, the People's Republic of China, the United Kingdom, the Soviet Union, the European Centre for Medium-Range Weather Forecasts, and universities and government agencies across the U.S. Among them were (from left) Michael Richards, U.S. Department of Energy (DOE) Office of Health and Environmental Research; Bernard Manowitz, BNL's Department of Applied Science; Gerald Potter, Lawrence Livermore National Laboratory (LLNL); and (back, right) Robert Cess, State University of New York (SUNY) at Stony Brook.

The participants also identified a need for additional fundamental research on the atmospheric water cycle to give a broader base of observed data to constrain the models. This will lead to better predictions of the effects of carbon dioxide on climate.

Future model development will be assisted by a new DOE computer program that will include improved hardware and new algorithms permitting more complex models to be evaluated, and by data that will be supplied by the DOE Atmospheric Radiation Measurement program.

Cosponsoring the workshop were the DOE Program for Atmospheric and Climate Research, the Institute for Terrestrial and Planetary Atmospheres, SUNY at Stony Brook, and the Program for Climate Model Intercomparison and Diagnostics at LLNL.

Reports Available

The following reports are available to Laboratory staff and affiliates of DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Staff members should call the designated contact.

BNL-52205 Addendum
Contact: P. Powers, Ext. 4828
Safety Analysis Report: X17B2 Beamline, Synchrotron Medical Research Facility (NSLS). N.F. Gmur, W. Thomlinson.

NUREG/CR-5573
BNL-NUREG-52237
Contact: K. Ryan, Ext. 5312
Boron Flushing During a BWR ATWS. D. Mirkovic, D.J. Diamond

NUREG/CR-2331
BNL-NUREG-51454
Vol. 9, No.4
Contact: N. Schneider, Ext. 2335
Safety Research Programs Sponsored by Office of Nuclear Regulatory Research. Compiled by: A.J. Weiss

BNL-52218
Contact: P.Powers, Ext. 4828
National Synchrotron Light Source Annual Report 1989. Editors: S.L. Hulbert, N. Lazarz, G.P. Williams

BNL-52219
Contact: J. Fanizza, Ext. 2921
International Safeguards — Accounting for Nuclear Materials. L.G. Fishbone

NUREG/CR-2331
BNL-NUREG-51454
Vol. 9, No. 4
Contact: A.J. Weiss, Ext. 2335
Safety Research Programs Sponsored by Office of Nuclear Regulatory Research. Progress Report October 1-December 31, 1989

BNL-52235
Contact: A. Lopez, Ext. 5768
Zircaloy Cladding Performance Under Spent Fuel Disposal Conditions. C. Pescatore, M.G. Cowgill, T.M. Sullivan

NUREG/CR-5574
BNL-NUREG-52238
Contact: A. Lopez, Ext. 5768
Determination of the Chemical Form of Tritium in Self-Luminous Signs. Prepared by: B.S. Bowerman, C.J. Czajkowski

NUREG/CR-3444
BNL-NUREG-51699
Vol. 7
Contact: A. Lopez, Ext. 5768
The Impact of LWR Decontaminations on Solidification, Waste Disposal and Associated Occupational Exposure. P. Soo, L.W. Milian

NUREG/CR-5573
BNL-NUREG-52237
Contact. K. Ryan, Ext. 5312
Boron Flushing During a BWR Anticipated Transient Without Scram. D. Mirkovic, D.J. Diamond.

Cafeteria to Get New Dishwasher

The 20-year-old, 21-foot-long dishwasher used in the Cafeteria survived its last major breakdown with assistance last spring from Central Shops Division personnel. But now, that old workhorse is about to wash its last dish.

A new, 22-foot-long machine will be installed beginning on Thursday, January 3. During the five-day installation, one-time-use plates, eating utensils and cups must be used.

Unless unexpected problems arise, regular dishes, glassware and utensils will be returned to service on Tuesday, January 8.

United Way Goal: So Far . . . Yet So Near

At the end of the three-week United Way Fund Drive, generous members of the BNL team have already put $86,000 on the scoreboard.

Now, the game is going into overtime, as Betty Pergan, Bldg. 179B, stands ready to receive any further contributions that will help score the goal of $100,000. If you have forgotten to make your usual donation, please send it in — your gift may make the difference between closing or keeping open a service for Long Islanders in need.

Last week's prize winners from the drawing sponsored by the United Way Fund Drive Committee for early pledge donors were: retiree Walt Tucker, who won a turkey; Sandra Asselta, Physics, whose name was drawn for a gift certificate for Smithaven Mall; Elizabeth Mogavero, Physics, who will enjoy a dinner for two at South Shore Restaurant; and Rosalie Piccione, Contracts & Procurement, who gets a weekend in Atlantic City.

The committee sends many thanks again to Associated Universities, Inc., Local 2230 IBEW, and the Long Island Guards Union No. 37 for their generosity in funding the prizes.

New Deadline For Dental Plan

Because of the Christmas holidays, the enrollment deadline for the AUI Dental Assistance Plan has been extended to Wednesday, January 2.

Coverage will be effective January 1, 1991, through December 31, 1992. Regular Lab employees who work 20 or more hours per week are eligible. Employees currently enrolled in the dental plan will have their coverage automatically continued unless they complete a termination form.

Employees wishing to enroll must complete application and payroll deduction forms, available from Personnel Services. Please direct any questions to Personnel Services, Ext. 2877.

Waste Oil Disposal

Waste motor oil may be brought to the Friendly Auto Service Station on Technology Street only Monday through Friday between 8 a.m. and 6 p.m. *Do not leave waste oil at the station when it is closed.*

The waste oil must be in closed, leakproof containers, which must be left inside the station. Station attendants will dispose of the oil.

Waste oils, as well as batteries or any other automobile parts, must not be left anywhere else on site and must not be deposited in any waste containers on site.

BROOKHAVEN BULLETIN

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for the employees of
BROOKHAVEN NATIONAL LABORATORY

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MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

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(516) 282-2345

Touch Football Champs

The Untouchables proved themselves rather untouchable again this year, as they chalked up a 5-1 regular season to become champions of the BERA Touch Football League. Members of this well-balanced team include: (standing, from left) Wayne Rambo, Boyzie Singh; (kneeling, from left) Alan MacIntyre, Gerry Shepherd, Gordon Smith, Charles Gardner and Mike Fulkerson. Not shown: John Biemer, Rich Domenech and Ed Meier. — Photos on these pages by Roger Stoutenburgh.

Aerobic Dance & Stretch Classes to Start

It's time to think about burning off those extra calories put on during the holidays — so join the Aerobic Dance Club in January 1991.

Instructor Pat Campbell will lead two different courses of exercise:

- Stretch classes involve floor exercises to lengthen, tighten and relax various muscles groups of the body.
- Aerobic dance classes emphasize cardiovascular fitness through low-impact, choreographed movements combining calisthenics with dance.

Classes in aerobic dance will be held on Tuesdays and Thursdays, at the Recreation Building in the apartment area, while stretch classes will be on Mondays at the Physics lounge, Bldg. 510. Classes run from 5:15 to 6:15 p.m., and mats are recommended for both.

Either or both classes may be taken, and each ten-week session of aerobic dance or stretch costs $30, payable at registration preceding the first classes:

- Stretch — Monday, January 7.
- Aerobic Dance — Tuesday, January 8, and Thursday, January 10.

For information, call Pat Campbell, Ext. 3483, or Janet Sillas, Ext. 2345.

Holiday Happenings

Look for Santa (Firefighter Rich Richard) and his elf helper (Sergeant Chuck LaSalla) when they make their rounds of the Lab's offices today around 1 p.m. At about 4 p.m., they'll take BNL Fire Engine #2 to visit the children in the apartment area. As usual, they'll be handing out candy canes — compliments of the Fire & Rescue Group.

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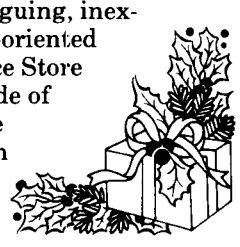
Today is the last day of the Winter Holiday Sales at the Science Store. The store is open from 10 a.m. to 3 p.m., and it's still stocked with a good selection of intriguing, inexpensive, science-oriented gifts. The Science Store is on the west side of Bldg. 701; please park in the north parking lot. For more information, call Ext. 4495.



Bowling

Red/Green League

R. Jansson had a 253/621 scratch series, E. Sperry IV 235, C. Scarlett 234, N. Franco 225, M. Guacci 223/210/629 scratch, C. Bohnenblusch 219, R. Jones 211, W. Cahill 209, E. Carter 208, K. Riker 208, C. Dimino 207, R. Larsen 207/206/601 scratch, F. Griswold 206, E. Sperry III 206, R. Eggert 203, H. Arnesen 201.

White League

Ken Riker had a 231, Jim Good 205, Jim Marsch 201, Caryl MacDougall 186/185, Annamarie Spira 183.

Purple League

Ed Sperry IV had a 215/213/627 scratch, Lee Grimes 213, Dennis Klein 208, Joe Ferrante 207, Skelly Frei 202, Pat Manzella 193/180, Kay Conkling 185.

Use of DOE Vehicles

If you drive government vehicles, even occasionally, or supervise those who do, Standard Practice Instruction 5-05 is of interest to you. Specifically, Article III sets forth the responsibilities of supervisors and drivers.

In addition, page 24 of the Employee Guide contains information regarding possession of licenses, as well as traffic rules and regulations for both private and government vehicles operated on site.

Coming Up

"Children of Divorce" is the next topic to be addressed in the Outreach workshop series sponsored by BNL's Employee Assistance Program. The lecture will be presented by Arline Glassel, M.S.W., on Tuesday, January 8, from noon to 1 p.m. in Berkner Hall.

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Weight Watchers returns to BNL in 1991, thanks to the Health Promotion Program of the Occupational Medicine Clinic. Two sessions of eight-week classes will be offered: one at lunchtime on Mondays (or Tuesdays, when Lab holidays fall on Monday), and the other after work on Wednesdays.

Both BNL employees and their dependents are eligible to attend for the reduced fee of $62. Registration will take place at the first classes: for the noon-1 p.m. sessions, on Monday, January 14; for the 5-6 p.m. group, on Wednesday, January 16.

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A smoking-cessation workshop given by the American Lung Association will also be offered after work by the Health Promotion Program in January. Open to Lab employees and their dependents, the four-week program will start on Monday, January 14, from 5 to 6:30 p.m.

It will cost only $30 per person, as the Lab will split the cost with participants; sign up before January 7 by contacting Health Promotion Specialist Mary Wood, Bldg. 490, Ext. 5923.

Volleyball

Standings as of December 14

Open League		League I	
Phoenix	23-7	Cannonballs	19-5
GTEAM	19-8	Upfagrabs	18-6
Me & the Boys	17-10	Rude Dogs	15-9
Magnum	17-10	Dinkers	11-13
Dig-It	10-17	Network News	9-15
Penetrating Vollies	8-19	Upsetters	0-24
Jet Setters	2-25		
League II		**League III**	
Fossils	21-3	NO KA OE	12-9
Nuts & Bolts	17-7	Undertakers	10-11
Net Wits	17-7	Nutcrackers	13-8
Pteropods	14-10	High Volley'em	11-7
Upton Ups	9-15	Renegades	9-12
Chunga's Revenge	9-15	Good Timers	9-12
Slammers	7-17	Sourcerers	8-13
Aces	2-22		

1991 New York City Train Trips

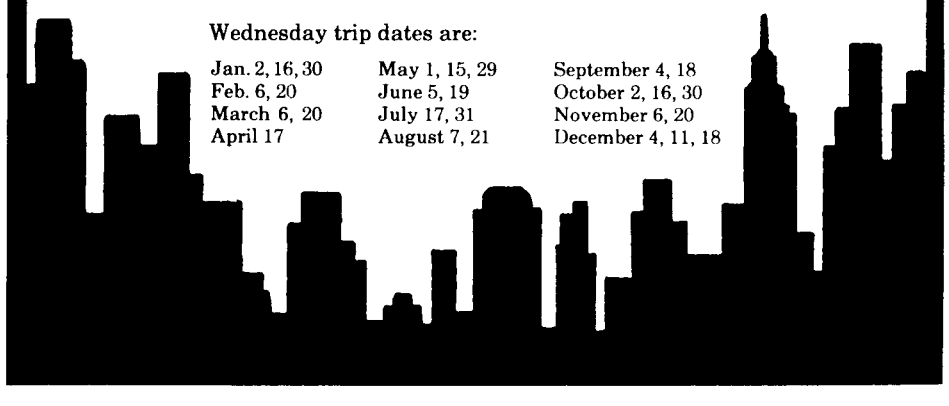
This is the only time that the 1991 schedule of special discounted trips to New York City (NYC) via the Long Island Railroad (LIRR) will be published in the Bulletin, so clip and save the information below.

- **Saturday trips** — Beginning in March, the Patchogue-Medford Library will run trips to NYC on the third Saturday of every month. For departure times and ticket prices, call the library's AV Office, 654-4700, Ext. 20.
- **Wednesday trips** — The Brookhaven Tour Group will run NYC train trips on the first, third and fifth Wednesdays of each month, leaving from Patchogue at 7:55 a.m. The cost is $7.50 per person; children under five ride free. Times and fares are subject to change pending new LIRR schedules and/or rate increases.

A minimum of 30 people is needed for each trip. For reservations, send a check payable to Cash to: Diane Weid, 645 Old Medford Avenue, North Patchogue, NY 11772. Checks must be received by the Monday before a trip and should include your phone number and the trip date. For more information, call Weid at 475-2394.

Wednesday trip dates are:

Jan. 2, 16, 30	May 1, 15, 29	September 4, 18
Feb. 6, 20	June 5, 19	October 2, 16, 30
March 6, 20	July 17, 31	November 6, 20
April 17	August 7, 21	December 4, 11, 18



Arrivals & Departures

Arrivals

David A. Hannum.....Reactor
Jih-Perng Hu.....Reactor
Denise J. Jacob.....S&EP
Minghan Ye.....Accel. Dev.

Departures

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

Steven B. Bertman.....DAS
Donald E. Barber.....DNE
Brian Flannigan.....AGS
Nabil Youssef.....Accel. Dev.

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.

The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.

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

INSTRUMENT SCIENTIST - to be responsible for operation and user interactions at the high-resolution neutron powder diffractometer to be installed on the H1A beam line of the High Flux Beam Reactor. Research experience in chemistry, physics or materials science is necessary. Contact: J.D. Axe, Bldg. 510A.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

4352. PROGRAMMING/ANALYST POSITION - Requires BS in computer science or appropriate field. Experience with MIS on-line systems, databases and ad hoc reporting capabilities desired. Knowledge of fourth generation languages and Hewlett Packard 3000 systems desirable. Working knowledge of departmental/division administrative systems preferred. Will be involved in programming and analysis for business systems, including accounting, personnel and payroll. Management Information Systems Division. Reposting of Job #4199.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants

4353. COMPUTING POSITION - Requires MSCS and a minimum of three years' experience, preferably in scientific computing. Significant experience with UNIX and VMS operating systems, FORTRAN, C, code management, graphics systems, x-windows and NFS required. Background in physics and/or physics computing useful, and experience with high energy physics software packages, i.e. Geant, PAW, etc., very useful. Physics Department. Reposting of Job #4342.

4354. BUDGET POSITION - Requires bachelor's degree in business administration or equivalent work experience, and excellent written and oral communication skills. Familiarity with MIS inquiry systems, in particular accounting and budget systems is highly desirable. Will assist senior-level administration personnel in supporting diversified needs of the Department. Must be able to work under minimum supervision. Alternating Gradient Synchrotron Department. Reposting of Job #4343.

4355. ADMINISTRATIVE POSITION - Requires a bachelor's degree with an emphasis in accounting and substantial experience in budget preparation. In addition, must have knowledge of IBM PC compatible spreadsheets and database software, and possess excellent communication skills. Will be primarily responsible for the planning, preparation, control and analysis of budgets, financial reports, labor rates and personnel records within the Division. Will serve as liaison between Division and other staff on site, and have supervisory responsibilities for administrative staff within Division. Plant Engineering Division. Reposting of Job #4338.

4356. ENGINEERING POSITION - Requires BSME and five or more years' experience in the design and fabrication of mechanical structures. Will work on a variety of problems relating to the construction of superconducting magnets. General knowledge of cryogenic and vacuum techniques desirable. Accelerator Development Department.

Motor Vehicles & Supplies

89 T-BIRD - full power, 32k mi., 100k mi. warranty, excel. cond. Jeff, Ext. 5262.

89 KX250 DIRT BIKE - expertly maint., excel. cond., $1,600. Lois or Bob, Ext. 4672 or 929-4753 eves.

88 FORD BRONCO II XLT - 4wd, a/t, ac, am/fm, p/s, p/b, loaded, 12k mi., $11,000. John, Ext. 5487 or 798-3766 eves.

88 YUGO - white/red, reliable, driven everyday, very clean, no reverse, $600. George, Ext. 4584 or 585-6119.

88 CORVETTE - pace car, orig., mint cond. Jack, Ext. 5459 or 369-8447.

87 BRONCO II XLT - 5-spd., ac, cruise, p/w, 30k mi., ext. warr., visor, running boards, alarm, more, excel. cond., $9,000. Susan Ext. 5149.

86 COUGAR LS - mint cond., $4,500. Wm. Sassano, 473-0341.

86 HYUNDAI - 4-dr., 4-spd., excel. body, needs engine, $650. Larry, Ext. 4295.

86 SUBARU GL - 2-dr. h/b, am/fm cass., power pkg., sunroof, only 26k mi., excel. cond., $5,895. Devinder, Ext. 4985.

85 GMC PICKUP - p/b, p/s, p/w, p/l, 74k mi., matching cap, excel. cond., $5,500. Steve, Ext. 7936.

85 KAWASAKI TRIKE KLT 110 - excel. cond., Don, Ext. 5329.

85 FORD LTD WAGON - 6-cyl., ac, a/t, excel. cond., $4,000. Barbara, Ext. 2456.

84 MERCURY TOPAZ - 2 dr., 5-spd., ac, p/b, p/s, 83k mi., am/fm radio, very econ., must drive, asking $2,400. Haim, Ext. 3077/3293.

84 CAMARO BERLINETTA - 6-cyl., a/t, p/s, p/b, ac, Eagle ST tires, 70k mi., $3,200. Ed, Ext. 3499 or 821-0063 eves.

84 FORD ESCORT - 53k mi., good body, exhaust system 1 yr. old. Frank, Ext. 2314 or 567-5131.

83 TURBO ZX ENGINE - & Borg-Worner T-S trans., new turbo, pistons, head work, cam, etc., very fast, $800 takes all. George, Ext. 4584.

81 KAWASAKI 440 LTD - 13k mi., new brakes, tires, battery, chain, sprockets, sissy bar, v.g. cond., must sell, moving, asking $650. 474-5715.

80 FORD VAN E-250 - 6-cyl., a/t, p/b, p/s, heavy duty suspension, windows, great for work van, new brakes & tires, $1,000. Jim C., Ext. 4150.

80 CHEVY MALIBU - 4-dr., p/s, p/b, a/t, V-8, small 267, blue/blue, gauges, all factory, orig. owner, garaged, $2,000. Al, Ext. 3992 or 331-1003 eves.

80 MERCEDES BENZ 240D - diesel, excel. cond., $9,000, will consider trade for compact car & cash. Ext. 2303 or 732-3902.

80 HONDA ACCORD - 5-spd., 2-dr., runs well needs new tires & exhaust, $500 neg, Ext. 3475 or 874-4851 after 6 p.m.

80 CORVETTE - white/tan leather int., 25k orig. mi., mint cond. R. Diaz, Ext. 2760 or 924-2430.

79 COACHMAN MOTOR HOME - 28', sleeps 8, gen., roof rack, 80k mi., v.g. cond., must sell now, asking $6,000. 395-5087.

79 COLT - a/t, ac, runs well, asking $400. Harvey, Ext. 3758.

79 FORD F-100 TRUCK - 6-cyl., 3-spd., v.g. cond., $1,250. 281-0832.

79 BUICK STATION WAGON - runs well, looks good, $1,500. Duke, Ext. 2957 or 289-3586.

79 FORD F-250 PICKUP - 4wd, w/plow, $2,900. 929-5872 after 6 p.m.

79 OLDS - good transportation, great train station vehicle, $700. 928-0030.

79 MERCURY GRAND MARQUIS - 4-dr., loaded, 72k mi., marvelous cond. in & out, asking $2,600. Ron, Ext. 2525 or 286-0353.

78 TOYOTA CELICA - 5-spd., h/b, ac, red, 120k mi., orig. owner, good cond., $800. Tom, Ext. 7916.

77 PONTIAC CATALINA - 4-dr., a/t, am/fm cass., 17 mpg, orig. owner, looks good, runs well, $590. Sandy, Ext. 3369 or 286-1022.

77 HONDA XL75 MOTORCYCLE - Don, Ext. 5329.

75 BMW 200Z - good cond., asking $1,700. 286-7406 eves.

73 VW 412 - unusual car, motor recently rebuilt, runs well, $450. George, Ext. 4584.

72 CHEVY NOVA - good running cond., $450 or best offer. Avril, Ext. 3395.

71 FORD RACK DUMP - 6k mi. on engine, new hyd. pump, $1,500 or best offer. 363-6845.

RIMS - aluminum, 5-lug, 15"x7", fits Chevy 4-wheel, $80/four. Jim, Ext. 4026.

CAR-TOP CARRIER - new, fully assembled, completely enclosed & waterproof, 18 cu. ft., $45. Don or Sue, 473-6570 after 7 p.m.

Boats & Marine Supplies

19' BOWRIDER CRUISER - 1972, w/1976 115-h.p. Johnson, canvas, trailer, w/elec. winch, $2,500. Frank, Ext. 2314 or 567-5131.

18' PENN YAN - fiberglass, 90-h.p. Evin., approx. 40 hrs., w/trailer, elect. winch, new int. upholstery, excel. cond., $3,100. Dick, Ext. 2405.

13' BOMBARD - 1987, inflatable, 30-h.p. Mariner, 1987 trailer, all access., excel. cond, great dive boat, must sell, moving, $3,500. 474-5715.

LIFE PRESERVERS - Type II PFD's, adult size, orange, two, $5/ea. John, Ext. 7671.

Furnishings & Appliances

CHAIRS - 4, wood, folding, $7; oval table w/3 leaves, maple, 2 arm chairs, 4 side chairs, $500; china closet, $375, $800/both. Arleen, Ext. 4519.

BEDROOM SET - 3 pieces, antique design, excel. cond.; antique picture frame, 15½"x19½", early 1900s, excel. cond. 878-0516 after 5:30 p.m.

CHINA - fine bone, 6-piece place setting, service for 12, $125. Neil, Ext. 4688.

BED FRAME - twin, white, $20; sewing machine, $50; hanging glass lamp, $20; child's car seat, $50; decoy, $65. Kathy, 744-2203.

VANITY - basin top, never used, 18"x24", oval cutout 15"x18", formica, cream w/rose trim, seamless splash guard, $15. Mike, Ext. 3867.

FURNITURE - dining room & living room, Ethan Allan, dark oak, new cond. Peter, 475-0837.

CLOCK - antique-looking, lovely chimes, $100. Janet, Ext. 2345.

DINING ROOM SET - early American, 40"x80" table, hutch, 2 captain's chairs, 4 mate's chairs, protective cover, $750. Hank, Ext. 5358.

WASHER - $300; dryer, $200, both GE, 1989, excel. cond. Bertrand, Ext. 3166 or 281-7808.

WASHER - & dryer, GE, large capacity, both in working cond., $50/each. Rich, Ext. 7520.

REFRIGERATOR - 1.7 cu. ft., $70; Yuasa kerosene space heater, 9,000 Btu/hr., $50. Hank, Ext. 5358.

FREEZER - upright; refrigerator, 1954 Frigidaire, best offers. 874-2614.

MICROWAVE - full-size, digital, 10 powers, shelf, like new, $140. Haim, Ext. 3077 or 3293.

FREEZER - Westinghouse, upright, v.g. cond., must sell, asking $150 neg. Ext. 7148.

Tools, House, & Garden

STORM DOORS - unused, 36"x80", full glass, 30"x80" crossbuck, bronze, w/screens, at cost. Janet, Ext. 4049.

GENERATOR - Generac, post-Gloria order, 4kW, on dolly, tested but never used, $350. Larry, Ext. 4295.

COAL STOVE - Surdiac #713, 60k Btu, used 3 seasons, v.g. cond., $300. Ron, Ext. 2214.

LAWN MOWER - 3½-h.p. Briggs & Stratton, $50; lawn tractor, Wheelhorse, model 1057, w/plow-dozer blade. Dan, Ext. 4987 or 698-7322.

SNOW BLOWER - Toro, used 1 hour, orig. $500, $350 or best offer. Greg, 399-1258.

APPLIANCE CART - heavy-duty, $10; work bench, 8', 2" solid top, 2" pine legs, $60; extension ladder, wood, 15', $25. Peter, 475-0831.

TOOL CADDY - Sears, 5 drawers, w/locks, new, $175. 281-5082 eves.

TWO-MAN SAW - antique, $125; wooden gate, $10; truck sides, 4'x8', maple, $55. Tim, Ext. 7238.

FIREWOOD - split, delivered, $130/cord. Allen Jones, 736-3937.

FIREWOOD - seasoned hardwood, split, delivered locally, $130/cord. 924-2035.

Sports, Hobbies & Pets

TELESCOPES - Newtonian-type reflectors, three 6", one 8", made at Hayden planitarium telescope-making class, reasonable. Ulysses, Ext. 7584.

LENS - 28-80 Sigma zoom, $65; skylight & polarized filters, $8/ea.; Vivitar #3500 flash, $30. Bill, Ext. 4175.

POOL TABLE - slate, make offer. Ext. 5905.

ROWING MACHINE - Precor, model 612, $165. 473-2473.

HOCKEY SKATES - boy's, size 5, like new, $45. Bosshard, Ext. 3576.

SKIS - children's, Rossignol, 130cm, Salomon bindings, $60; boots, size 4, $20; poles, $5. Leonard, Ext. 4457.

SKIS - 180cm, Atomic 533-CE, w/bindings, excel. cond., $200; Burton Free-3 snow board, 128cm, w/bindings, 110 lb. rider, $200. Geoff, 821-3191.

BIKE - boy's, 24", 3-spd., $20; scooter, $30. Arleen, Ext. 4519.

BIKE - Freespirit FS-10, new, 26", girl's, 10-spd., must sell, $50 neg. 395-5087.

SLED - $3; multi-channel radio w/battery recharger, $5. Haim, Ext. 3077.

DRYSUIT - Poseidon, man's, large, excel. cond., orig. $1,500, sell for $500. 474-5715.

FISH TANK - two 29", king & queen stand, 2 filters, 2 heaters, full hoods, fluorescent lights, 80 lbs., gravel, $250. Janet, Ext. 2345 or 929-3910.

R/C TRUCK - Blackfoot, w/2 NCS radios, mint, extra battery charger, parts. 395-5087.

PIANO - baby grand, walnut color, good for practice, best offer. 751-8351.

ROTTWEILER - male, 3½ yr. old, proven stud, beautiful temperament, needs good home, great w/kids, asking $600. Lana, 924-3465 after 6 p.m.

Audio, Video & Computers

TV - 41", pro screen, NEC stereo, excel. cond. Pete, 727-7483.

GUITAR AMP - Peavey Bandit, dual channel, 50W, 1"x12" reverb, foot switch, $200; guitar, Cort, Steinberger lic. copy, $125. Greg, 399-1258.

CD PLAYER - Sharp DX-660, programmable, repeat, digital display, $85. Rolf, Ext. 2305.

MONITOR - 13" color, composite input. Austin, Ext. 4479.

POWER AMPS - Tecknics, #SE-A5MK2, 150 watts per channel, new, list $1,200, $650 or best offer. Ext. 3992 or 331-1003.

Miscellaneous

BABY'S BATH - $3; playpen mat, $3; kid's snow suit, $3; vaporizer, $5; tapes, Jane Fonda $18, Linda Carter's make-up secrets $8. Haim, Ext. 3077.

INFANT'S CAR SEAT - Evenflo, velour cushion, 6 mo. old, $20; Graco Disney baby swing, 4 mo. old, $30. Neil, Ext. 4688.

TYPEWRITER - electronic; Gibson freezer; heavy-duty shredder w/cast iron cart; spindle-back chairs. 363-7032.

DENTAL SYSTEM - Water-Pik deluxe, w/electric toothbrush, brand-new, asking $55; electric space heater, brand-new, $20. S. Spark, Ext. 4111.

Free

OUTSIDE LAMPPOST - black alum.; roll-up shades, 2, ea. 6' & 1, 7'. Ray, Ext. 4561 or 727-6818 after 5 p.m.

CAT - male, neutered, sweet & loving, wants to move from city to country, needs home fast. Janet, Ext. 2345 or 929-3910.

TV - black & white, old, needs work. Susan, Ext. 2184 or 821-5836.

Car Pools

EAST ISLIP-OAKDALE-BOHEMIA - need 1 more driver for car pool. Frank, Ext. 2314 or 567-5131.

DEER PARK - need 1 driver. Ken, Ext. 7311 or 349-3462.

Lost & Found

LOST - guitar, golden Cortez electric, from AGS/EAG area, please return. Fred, Ext. 7947 or 588-2268.

FOUND - bifocals, green marbled Marchon frame. Ext. 2345.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

BLUE POINT - new 1-bdrm. apt., l/r, eik, w/w, new appl., deck, priv. ent., cath. ceiling, 1 mo. sec., $700/mo. + util. 363-6845.

CORAM - 4-bdrm. ranch, 2 baths, short-term, $600/mo. Ext. 3791 or 928-7154 eves.

E. MORICHES - 2-bdrm. apt., ground floor of Victorian house, bath, kitchen, d/r, l/r, large yard, 3 blocks to bay, shops, school, $680/mo. + util. Mona, Ext. 5056 or 878-9384 eves.

HOLBROOK - large 1-bdrm. apt., w/w, full bath, priv. ent., near LIE & LIRR, $625/mo. pays all. John, 758-2392.

MASTIC BEACH - all new 1-bdrm. apt., full bath, full kit., priv. ent., yard, driveway, for single, $550/mo. pays all. Tony, 281-2513.

MASTIC BEACH - small 2-bdrm. cottage, screened porch, fenced yard, nice neighborhood, $675/mo. + util. 360-3803.

MATTITUCK - 1-bdrm. apt., large l/r & closets, full bath, kitchenette, sep. ent., quiet wooded area, near water, nonsmoker, $450/mo. Ext. 7657 or 298-9560.

MIDDLE ISLAND - 2-bdrm. condo, 1½ baths, 4 yrs. old., furn., all appl., 5 min. to Lab., $875/mo. + util. 751-8351.

NORTH SHIRLEY - 1-bdrm. apt., furn., l/r, eik, w/w, 5 min. from Lab & stores, priv. ent., 1 person, nonsmoker, no pets, $490/mo. incl. util. 281-8044.

SHIRLEY - 3-bdrm. house, 5 min. from Lab., fenced yard, $900/mo., avail. Feb. 1. Bertrand, Ext. 3166 or 281-7808.

SHIRLEY - 3-bdrm. ranch, l/r, d/r, eik, dw, fenced yard, 1 mi. to Smith Point, $825/mo. + util. 744-5448.

YAPHANK - 4-bdrm. restored Victorian, patio, 5 mi. from Lab., large treed property, avail. now. 924-7106 days & weekends, or 924-3066 eves.

YAPHANK - 2-bdrm. house on wooded 2 acres, 10 min. to Lab., $750/mo. + util. John, Ext. 3675 or 924-3528 eves.

CLAREMONT, NH - 2-bdrm. condo, 40 mi. to Killington, Okemo, Magic Mt., Mt. Sunappe, $300/wk., $225/weekend. Frank, Ext. 7749 or 758-7913.

HILTON HEAD, SC - 2-bdrm. condo, 2 baths, sleeps six, tennis, golf, beach, pool, Dec., Jan. & Feb. $250/wk. Guy, Ext. 3147 or 924-1038.

For Sale

AQUEBOGUE - ¾-acre lot in newly established development, underground utilities, very close to beach. 874-2614.

BROOKHAVEN HAMLET - 4-bdrm. Cape Cod, 2 baths, d/r, l/r, eik, 2-car gar., 20' deck, patio, more, close to bay, ¾ acre, red. to $219,000. Ext. 7108 or 286-0271 eves, or Carl, 214-708-2058.

CENTEREACH - 4-bdrm. hi-ranch, l/r, d/r, eik, 2 full baths, large fam. rm. w/fp, deck, pool, large fenced yard, $135,000. 698-8514.

CORAM - Strathmore East, 4-bdrm. ranch, 2 baths, cath. l/r, 2-car gar., gas heat, fenced corner lot, $120,000. Ext. 3791 or 928-7154 after 7 p.m.

MASTIC - 2-yr.-old 3-bdrm. ranch, 2 baths, 100'x100', bsmt., fenced skylight, all appl., $16,000 cash over existing $100,000 mtg, owner helps w/closing costs. 399-5051.

MASTIC - 3-bdrm. T-ranch, den, l/r, d/r, eik w/skylight, deck, pool, fenced backyard, new w/w, new windows, extras, mint cond., 10 min. to Lab., priced to sell. Ext. 3046/2253 or 399-3303.

MIDDLE ISLAND - 3-bdrm. ranch, eik, den w/fp, d/r, l/r, 12½ baths, screened porch, patio, full bsmt., wooded ½ acre, $155,000. 924-6051.

PORT JEFFERSON STATION - 3-bdrm., 4-yr. Colonial, l/r, d/r, den, eik, 1½ baths, gar., vinyl siding, fenced, ig sprinklers, gas util., sewers, $139,990. Ext. 4985 or 331-8459.

SHOREHAM - 3-bdrm. California contemporary ranch, stone fp, den, l/r, d/r, ig sprinkler, plenty of storage, 5 appl., 5 min. to Lab, 1 mi. to St. Marks, $149,500. Ext. 2833 or 744-7172.

PALM BAY, FL - near Melbourne, 2-bdrm. condo, 2 full baths, l/r, d/r, kit., w/d, pvt. screened patio, completely furn., heated pool, near beach, malls, $65,000. 698-8514 after 5 p.m.

Wanted

BIKE - used mt. bike or 12-spd., good quality for 5'10" male teen. Ext. 7657 or 298-9560.

CAR COVER - 13', for smallest car. John, Ext. 7671.

COFFEEMATIC FILTER HOLDER - GE, and carafe for model B1-3390-0, tall w/clock. Mike, Ext. 3867.

EXERCISE BIKE - for Exhibit Center/Science Museum for exhibit, reasonable. Janet, Ext. 4049.

HESS TRUCKS - old w/associated literature. Jim, Ext. 4026.

HOUSEMATE - to share condo in Middle Island, $450/mo. + ½ util., 5 min. to Lab. 751-8351.

HOUSEMATE - M/F to share house in Mastic Beach, 3 bdrm., kit., l/r-d/r, w/d, cable, clean, quiet, 10 min. to Lab., $350/mo. + ½ util. 399-6947.

WHEELS - carriage, for building soapbox cars, free or very cheap. Maria, Ext. 3228.

WOOD STOVE - airtight type, free or cheap, in need of repair OK. Carl, 929-5781.

VAPORIZER - used. Noemi, Ext. 3180.

FELLOW PILGRIMS - to Medugorje, Yugoslavia, Feb. 15-23, $849 incl. all. Adam Leskowicz, Ext. 4287, beep 0193, or 286-8611 after 5 p.m.

In Appreciation

Thanks to all of you who took the time to wish me well during my hospital stay. — Phil Foster

The Vestal family thanks all our coworkers and friends for their expressions of sympathy on the loss of Alvin's mother, Emma Vestal.
— Alvin, Grace, Alvin Jr. and Donna Vestal