BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Popular Science Says BNL Device Is Something to OWL About

BNL's Flame Quality Indicator, a device that can benefit the 11 million oil-heated homes throughout the U.S., has been picked by *Popular Science* magazine as one of the year's 100 most significant new products and achievements.

The December 1993 issue of the magazine will contain a special section, "The Best of What's New," in which the Flame Quality Indicator will be described. All 100 selections were announced on Wednesday, at an awards luncheon hosted by *Popular Science* in New York City.

Developed by Thomas Butcher and Roger McDonald, Department of Applied Science, and by Philip Cerniglia, RHIC Project, the device monitors the performance of the small oil burners that power residential oil-heating systems. It is simple to use, inexpensive, energy-saving and environmentally beneficial.

The Flame Quality Indicator monitors flame brightness, a useful way to detect small changes in the air/fuel ratio, which is an important factor in flame quality. When the flame brightness falls outside of a preset range, that indicates that the appliance needs to be serviced. This warning would occur weeks or even months before the oil burner's primary control would normally shut down the system because of a failure to detect a flame.

Excess combustion air, causing a fuel-lean mixture, is associated with a decrease in overall appliance efficiency. Too little combustion air, causing a fuel-rich mixture, results in the formation of smoke, soot and fouling of the appliance's heat exchanger. Other problems can also be detected, including a fouled fuel nozzle and blockages in the combustion air inlets or in the chimney.

Developers of BNL's Flame Quality Indicator are: (from left) Roger McDonald, Philip Cerniglia and Thomas Butcher, who holds the device being recognized by *Popular Science* magazine.

With a simple-to-read display of colored lights, the Flame Quality Indicator will flag the homeowner's attention so problems can be corrected before the system fails to provide heat or parts of the system are fouled with soot, requiring extensive maintenance.

Based on BNL's Flame Quality Indicator, Energy Kinetics, Inc., of Lebanon, New Jersey, will be manufacturing an improved device and testing it this fall in residential homes in the Northeast. Assuming the field testing is successful, Energy Kinetics will market the device in time for the 1994-95 heating season. The company has named its device OWL, short for Oilheat Watchguard Light.

A second manufacturer, Davis Aircraft Products Company, Inc., of Bohemia, New York, is also planning to field test a unit in the near future.

BNL's research on the Flame Quality Indicator was funded by the U.S. Department of Energy (DOE), through the Building Systems and Materials Division of the Office of Building Technologies, under the Office of Energy Efficiency and Renewable Energy.

– Mona S. Rowe

This owl is perched on an OWL, short for Oilheat Watchguard Light, the name given to an improved version of BNL's Flame Quality Indicator by Energy Kinetics, Inc., which will be manufacturing and testing the device this winter season.

Spotted in the Spotlight for FY93

Seventy-five BNL employees were honored with Spotlight Awards during fiscal year 1993 for extending short-term extraordinary efforts in response to department or division needs. Fifty-three were on hand for this photo:

(front row, from left) Mihai Radulescu, National Synchrotron Light Source (NSLS) Department; Mona Rowe, Director's Office (DO); Maria Beckman, Department of Advanced Technology (DAT); Pam Mansfield, Computing & Communications Division (CCD); Patrick Glynn, Staff Services Division (SSD); Patti Bender, Plant Engineering (PE) Division; Anita Cohen, DO; Linda Greves; Safety & Environmental Protection (SEP) Division.

(second row, from left) John Bunicci, Alternating Gradient Synchrotron (AGS) Department; Leonard Masi, Reactor Division; Lynanne Santella, RHIC Project; Bill Softye, PE; Angela Schaefer, Fiscal Division; William Pinto, PE; John Hammond, Physics Department; Charlotte Wrigley, NSLS; Roy D'Alsace, NSLS; Srini Iyer, Management Information Systems (MIS) Division; Sharon Zuhoski, Department of Applied Science (DAS); Siegfried Naase, AGS; Matthew Recchia, RHIC; Kate Vodopia, Medical Department; Ron Clipperton, AGS.

(third row, from left) John Carlson, AGS; Annette Pirrotta, Medical; Walter Becker, DAT; Kevin Fox, Contracts & Procurement Division; Robert Lamb, Central Shops Division; Mary Riddick, Instrumentation Division; Pam Manning, RHIC; Doris Rueger, Physics; Frances Ligon, DO; Jean Matkovitch, Occupational Medicine Clinic; Betty Rollins, SSD; Kara Roman, DAT; Mindy O'Sullivan, Safeguards & Security Division (S&SD); Donna Russo, Medical; Carol Ogeka, SEP.

(back row, from left) Bonnie Miller, Personnel Division; Peter Stelmaschuk, PE; Bill Birkholz, RHIC; Doug Warren, Reactor; Joe Vignola, SEP; Leon Goudikian, RHIC; Robert Scheuerer, NSLS; Michael Lehecka, RHIC; Jim Makoulis, AGS; Frank Toldo, AGS; Conrad Koehler, Chemistry Department; Alex Lenderman, RHIC; Richard Skelton, AGS; Ed Richards, SEP; Mike Hemmer, RHIC.

Not present: Charles Carlson, Physics; Michael Carroll, Physics; Harriet Castro, Fiscal; Joseph D'Ambra, RHIC; Steven Ellerd, RHIC; Ann Marie Emrick, Biology; Marion Heimerle, AGS; Jane Hodgkinson, DAT; Robert Jansson, MIS; Daniel Jenkins, Reactor; Henry Link, NSLS; Salvatore Marino, Physics; Michael Niewiarowicz, Reactor; Hank Raimondo, S&SD; Donna-Ree Rodriguez, CCD; Steven Savatteri, AGS; Gerry Van Derlaske, NSLS; Edward Weigand, RHIC; Robert Wheeler, Physics; Madeline Windsor, Technical Information Division; Raymond Zaharatos, AGS.

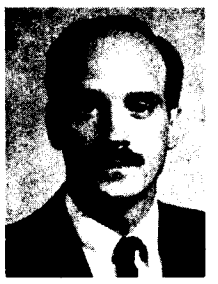
—Photo by Roger Stoutenburgh

Outreach: Psychology at Work

A Winning Team

Would you rather pitch for the Toronto Blue Jays — or the New York Mets? Play center for the Chicago Bulls — or the Dallas Mavericks? Or, quarterback the Dallas Cowboys — or the Cincinnati Bengals?

Regardless of the sport, the difference between a winning team and a total loser is not only the stars on the team, but also the total teamwork. Getting a group of individuals to work together as a team so that they can collectively solve all the problems that they encounter on the playing field to win takes luck — and good coaching.



Robert Carrere

To learn how to turn your working group into a winning team, come to the final Outreach workshop in the "Psychology at Work" series. Entitled "Team Building: The First Step in Conflict Management," the talk will be presented by psychologist Robert Carrere on Tuesday, November 23, in Berkner Hall. All are invited.

A popular Outreach speaker, Robert Carrere, Ph.D., is the Assistant Director of Psychology at the South Oaks Hospital in Amityville and has a private practice in Plainview.

To register for this workshop, return the completed bottom portion of the Outreach flyer recently mailed to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490, by Monday, November 22. For more information about EAP and its Outreach workshop series, call Ext. 4567.

Leaving the Lab — After 35 Years or More

This month, the Bulletin salutes two Medical Department employees who are retiring with more than 35 years of BNL service.

Veronica Brooks

When Supervising Nurse Veronica Brooks, Medical Department, arrived at BNL for her first day as a staff nurse, it was a cold and snowy February 1, 1955. Cold and snowy, that is, for Long Islanders.

Brooks, a Vermont native, had no trouble entering the site through what is now the main gate. But, when she entered the nurse's locker room to get her uniform, she overheard the other nurses complaining about the icy hill they had come over on their way into the Lab. "What hill? I didn't see any hill," Brooks thought to herself.

"It turned out to be this little incline over the railroad tracks," she chuckles now. "And, I thought to myself, they don't know what snow is around here!"

At that time, the Long Island she had visited during childhood summers and had moved to with her husband Robert and two children seemed a long way from the northern hospital where she had started her nursing career. But now, 38 years later, Brooks says she's adjusted to Long Island life, and will miss her work and coworkers when she retires at the end of this month.

Once at BNL, Brooks entered the world of experimental medical therapies, assisting in studies that were always on the cutting edge.

She started as an evening shift nurse in the juvenile nephrosis clinic in the old barracks buildings, in what is now the apartment area. "It was sad work," she says, adding that as doctors worked to find the kidney disease's cause, many of the young patients succumbed to their ailment.

After two and a half years in Medical, Brooks was named Head Nurse and joined Eugene Cronkite in the first phase of his study of a technique for irradiating blood outside the body as a treatment for chronic leukemia and a way to find out more about the blood's leukocytes.

By the time the Medical Research Center opened in 1959, Brooks had been made assistant to the supervisor of nurses, then supervisor herself. At that time, she remembers, BNL's 48-bed hospital was often overflowing, and 36 nurses and 18 matrons and orderlies tended to patients participating in many studies. "We were so terribly busy at that time that you barely had time for a lunch break," she recalls. "But, when you went home at the end of the day, you felt you had accomplished something."

Roger Stoutenburgh

Veronica Brooks

Brooks assisted in many research projects, ranging from hypertension and brain tumors to obesity and breast cancer metastases. She was a member of the team that performed transvenous angiography on a human patient, first done at the National Synchrotron Light Source in 1990. And even now that the Medical Research Center no longer has in-patients, she still finds the research exciting.

With only days to go before the end of her BNL career, Brooks says she will miss the medical staff. "After 38 years, they're like family. And I couldn't have done any of this without Teddy Johnson, the senior service orderly. He's always there to do whatever," she said.

In retirement, Brooks and her husband plan to divide their time between balmy Long Island and chilly Vermont, traveling in their 60-foot trailer. With two daughters and three grandchildren here, and two sisters and a brother and their families up north, they'll have plenty of visiting to do. — Kara Villamil

Oscar Gonzalez

Few of the people with whom Oscar Gonzalez worked when he first joined BNL in 1957 are still at the Lab today. But one thing remains the same: Throughout his years here, Gonzalez has made a specialty out of caring for the animals used in the Lab's biological and medical research, and helping out wherever he's needed.

Arriving in the States from his native Puerto Rico so that his wife could continue her American education, Gonzalez first took a job in the BNL Cafeteria in 1956. He officially began work at Brookhaven on April 15, 1957, as a lab assistant in the Biology Department. He then eventually became a technician, a veterinary services assistant and a research services assistant. "I worked with a lot of different people and got on with everybody," he says proudly.

Once the Biology Department discontinued animal research in 1970, Gonzalez moved to the Medical Department, where he served as a veterinary services assistant until 1979, when he was made senior veterinary services assistant, the position he holds today. "The main thing is, I do my work and I respect and care for what I do," Gonzalez said. "God gave me the health to be here.

Roger Stoutenburgh

Oscar Gonzalez

"Not many people hold their jobs this long," he continued, giving the credit for his good health and young looks to his family history; his father lived to be 100, and his mother 85.

Once his 37-year-plus BNL career draws to a close at the end of this month, Gonzalez says he will miss the people and animals he has worked with. "I'd like to say thank you to BNL for the opportunity, and to everyone who had anything to do with me in the line of duty," he said.

But the free time that comes with retirement means that he'll be able to spend more time with his wife, Lucy, his six children and dozen grandchildren, and to do a little fishing. He also looks forward to being able to spend time at his house upstate, near Binghamton, even though it may mean more snow to plow this winter. And he anticipates more trips to Puerto Rico and elsewhere, and eventually maybe a move to "a warmer place."

But above all, he plans to continue to take care of himself like he has all these years. "Life is only once, and that's it," he said. — Kara Villamil

Pick A Teacher

The DOE Teacher Research Associate (TRAC) Program allows outstanding secondary school teachers to take part in BNL research for eight weeks during the summer, at no cost to the sponsoring researchers' departments. The 1994 TRAC program will begin on Monday, June 27.

Today, November 19, through Tuesday, December 7, those interested in sponsoring a TRAC teacher this summer may review applications from teachers across the nation at the Science Education Center, Bldg. 438. Applications from Long Island teachers may be reviewed in January.

Don't Dial 8 Prefix

Since September 10, all long-distance calls from BNL have been carried by the FTS2000 government telephone system, and both prefixes 8 and 9 have been accepted for long distance calls. Effective December 1, however, the prefix 8 will be discontinued, and BNL employees must dial the prefix 9 for all off-site calls — including long distance. Those who dial 8 will hear a recording instructing them to dial 9.

Pool & Gym Closing

The pool and gymnasium will be closed for the Thanksgiving holiday weekend, Thursday, November 25, through Sunday, November 28. They will both reopen and resume usual hours on Monday, November 29.

Signs of the Times

Almost all of the signs on site — building identification, road and traffic, recycling, main gate and conference signs, retirement plaques, tiny electronic equipment labels, as well as labels for the huge magnets built for Brookhaven's Relativistic Heavy Ion Collider — are made at Plant Engineering's Sign Shop in Bldg. 422.

While the hundreds of signs around site were previously laid out, painted and cut out by hand, they are now created with the aid of a sophisticated, new computer system called the Graphix Advantage.

The specifications for the sign are fed to the computer, and a device called a plotter automatically cuts the required letters and graphics out of vinyl with a pressure-sensitive adhesive backing. The vinyl design is then simply pressed on to the plastic to be used for the sign.

"The computer has hundreds of basic signs and about 400 different type styles," said Bruce Laakmann, Supervisor of the Sign Shop. "We can also make customized signs using the computer."

The Sign Shop is staffed by Frank DeRosa and Michael Chiodo. Michael Cardarelli, General Supervisor of Buildings Maintenance and Service, oversees the shop's operations.

Laakmann explained that when a very large number of a particular sign is needed — hundreds or more — they are still made by labor-intensive silk-screening. Nevertheless, most signs can be created using the new computer and plotter, as well as a new image scanner, which can reproduce almost all logos.

Roger Stoutenburgh

Creating a seasonal sign on the new computer system in the Sign Shop are Frank DeRosa (seated) and Bruce Laakmann.

"The new signs are better for the environment," Laakmann said. "They're made of vinyl and plastic that can be recycled. They are also more durable than the hand-painted signs. The outdoor signs are guaranteed to last at least 12 years — and they are more economical than the old-fashioned paint and metal signs."

— Diane Greenberg

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, November 22, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. The agenda includes regular business, committee reports and the president's report.

FSA Enrollment Deadline Extended

Because of the Thanksgiving holiday, the enrollment deadline to establish flexible spending accounts (FSA) for calendar year 1994 has been extended to Friday, December 3.

Both the Health Care and the Dependent Day Care Reimbursement Accounts will be effective January 1 through December 31, 1994, and are available to all regular Lab employees who work 20 or more hours per week.

Under IRS rules, employees currently participating in one or both reimbursement accounts who wish to continue in 1994 must complete the new enrollment-application form, which was recently mailed to them, even if they don't want to change the amount that they contribute.

Employees who are not currently enrolled, but who wish to establish one or both FSAs for 1994, can obtain applications forms at Personnel Services, Bldg. 185, Ext. 2877.

Return completed forms to Personnel Services by December 3, for coverage to be effective January 1, 1994.

Give Thanks by Giving to Others

Thanksgiving is about giving thanks for all that you have. But, it can also be a time to give to others who are not as fortunate. This holiday season, BNLers have three simple ways of doing that while at work: the United Way, the Blood Drive and the BERA Toy Drive. All depend on your generosity to help those in need.

Plus, in anticipation of the season of giving gifts to those you love, the Science Store will soon open for a limited time, offering amusing stocking stuffers and fascinating presents.

Unite for Brighter Tomorrows

If you haven't already, send in your pledge to the United Way's 1994 Campaign. Not only will it help the United Way help those in need of medical and other kinds of assistance — you'll also be automatically entered in at least one drawing for prizes, including the grand prize, an all-expenses-paid weekend for two in New York City. The deadline for the first drawing is this afternoon, with deadlines for other drawings on November 24 and December 3.

Your department or division United Way captain can find the answers for you if you have questions about where your money goes to. Give as much as you can to help those in need in this holiday season; donations large and small will all count toward the $100,000 goal and will help ensure brighter tomorrows for everyone.

Roger Stoutenburgh

At the Long Island United Way (LIUW) communications center in Bldg. 179, (left) Ron Manning, BNL United Way Chairman, and (right) Jaime Suarez, LIUW Region 5 Vice President, help BNL United Way captains: (center, from left) Jim Licari, RHIC Project; Joan Perullo, Staff Services Division; and Pat Taylor, Department of Applied Science.

Pledge to Give the Gift of Life

The holiday shopping and celebrating season means more traffic, and that means more road accidents. Many of those who fight holiday traffic and lose, or who undergo heart surgery, chemotherapy, burn treatment or other medical procedures need the gift of life: blood and blood components. And that blood is mostly given by generous volunteers at drives such as the one scheduled for December 9 and 10, between 10 a.m. and 3 p.m. at the Brookhaven Center.

Blood Drive Coordinator Susan Foster says pledge cards and informational brochures will be mailed to BNLers Monday. Those returned by the December 1 deadline will be entered in a drawing for one of five $50 gift certificates to area restaurants. Each employee will receive two pledge cards, so that a family member or friend may also give and, possibly, win.

Blood captains in your department or division (see list) are available to answer any questions. The drive's goal is 500 units. And remember, while 640 BNLers have already given blood this year, according to Long Island Blood Services, it takes a consistent supply of fresh blood to keep Long Island's blood banks full! Even though you may feel rushed and too busy to donate this holiday season, stop and think: The life you save may be your own or that of your loved ones.

Dept.	Captain	Bldg.	Ext.
AGS	Harold Avent	911A	4781
AUI	Elliott Levitt	134A	2495
Bio.	Richard Sautkulis	463	3386
CCD	Ronald Yuhas	515	4144
Chem.	Nancy Sautkulis	555A	4304
CSD	Robert Soja	479	3357
	Lou Pergola	462B	3499
	Carol Bell	462U	7725
	Al Campbell	903	2043
DAS	Pat Taylor	179A	2452
	Claire Lamberti	318	3051
	Arlean Vanslyke	475	2387
	Maryann Larese	480	3508
	Eileen Morello	815	4519
DAT	Sue Monteleone	130	7235
	Tony Santaniello	197C	4544
	Barbara Crothamel	197C	5896
	Linda Hanlon	475B	7517
	Kara Roman	475B	3643
	Marjorie Chaloupka	475C	2746
	Grace Webster	703M	3227
	Ali Lopez	830	5768
DCP	Debbie Keating	355	7218
DO	Janet Sillas	134	2345
DOE	Clare Appleton	464	7812
Fiscal	Doreen Hallinan	134	2457
Instr.	Patrick Gilleeny	535B	2836
Med.	Marta Nawrocky	490	3592
MIS	Juanita Hyliger	459	3915
NSLS	Pat Powers	510E	4828
	Kathy Loverro	725C	7188
OMC	Mickey Sacker	490	3670
PE	Marilyn Johnson	134C	2546
	Marilyn Zane	134C	5075
	Tirre Farmer	452	3288
	Ron Mulderig	326	3084
Pers.	Marsha Kipperman	185	2871
P&GA	Phyllis Domenech	197B	2907
Phys.	Sandy Asselta	901A	4550
	Liz Mogavero	510A	3940
Reac.	Nick Houvener	750	4436
	Randi Vogt	120	4043
	Julie Teuber	703	2513
RHIC	Jim Licari	830	7146
	Cynthia Murphy	902	5459
	Tom Smith	1005	4729
	Lisa Willi	902	2050
SEP	Donald Dains	535A	7494
	Michael Carroll	599	2351
	Sheila Bubka	535	3144
SMD	Michael Guacci	211	2976
SSD	Joan Perullo	179B	2549
S&SD	Tammy Heinz	50	4271
	David Peter	50	2231
	Rich Rossetti	50	2231
	Michael Timm	50	2231
	Maryann Reynolds	703	5241
TID	Marie Apelskog	477	3138

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ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

Bldg. 134, P.O. Box 5000
Upton NY 11973-5000
Tel. (516) 282-2345; Fax (516) 282-3368

Pianist Ruth Laredo Returns

Ruth Laredo

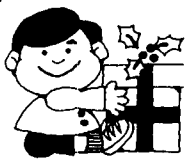
A popular performer in BERA's Concert Series, pianist Ruth Laredo will return for an encore on Wednesday, December 1 — for the fourth time. Her solo concert, sponsored by BERA, will be held in Berkner Hall, beginning at 8 p.m.

Ruth Laredo is renowned worldwide as a leading soloist, recitalist and recording artist. A three-time Grammy award nominee, she was the first pianist to record Rachmaninoff's complete solo works, which earned her *Record World's* "Best Keyboard Artist" award.

The program for the Berkner Hall performance, "Homage to Rachmaninoff," features a number of compositions written by the artist, who lived from 1873-1943. Laredo will also play several pieces written by Alexander Scriabin (1872-1915).

Tickets for the concert can be purchased at the door for $14, general admission; $9, students and people over 65; and $5, youths under 18.

Give a Gift Of BNL



Nearly anyone on your holiday gift list would probably love a gift from the BNL Science Store, from a pocket magnifying lens to a set of placemats decorated with the Periodic Table of the Elements. Most of the gifts teach scientific principles, even if the recipient is too busy having fun to notice!

The Science Store, located in the Science Museum, Bldg. 701, will be open three Fridays in December — the 3rd, 10th and 17th — between 10 a.m. and 3 p.m. For more help in deciding what to give, you'll soon receive a flier listing the store's wares, and a museum helper will be on hand at the store to demonstrate how all the gadgets, gizmos and toys work.

BERA Toy Drive Starts Monday

For the tenth year, BERA will participate in the toy drive organized by Brookhaven Town, to provide happy holidays for needy young people in our local communities. The 1993 Toy Drive will begin on Monday, November 22, and run through Wednesday, December 22.

New toys are preferred, and toys for children of all ages are needed. Bring donations to the BERA Sales Office in Berkner Hall, from 9 a.m. to 1:30 p.m. weekdays.

For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Arrivals & Departures

Arrivals

Roy W. Heyder ..... RHIC
Tina L. Walsh ..... Ph. & Gr. Arts

Departures

None

Calling All Carolers

Plan to sing with the BNL Choral Group on Wednesday, December 22, at the special Christmas luncheon in the Cafeteria, and, afterward, at one or two other places around site.

The first rehearsal will be Monday, December 6, at Berkner Hall, at noon sharp! Subsequent rehearsals, also in Berkner, will be Fridays and Mondays: December 10, 13, 17 and 20. Rehearsals must end by 12:45 p.m., so please be on time.

Singers are needed for all parts — soprano, alto, tenor and bass. For more information, call John Weeks, Ext. 2617, or Janet Sillas, Ext. 2345.

Social Club

The Social Club has the following trips on its 1994 itinerary. For brochures and more information, call Doris Terry, Ext. 7610.

• **Ski Berkshire E. & Mt. Snow** — March 4-6; incl. transportation and Holiday Inn accommodations, ski rentals, 3-hour open bar & Sat. night party, breakfast, dinner, 2 smorgasbords, more; 4/rm. - $154/person; 3/rm. - $174/person; 2/rm. - $184/person; $109/child; $50 deposit due Dec. 3; balance due Jan. 28.

• **Australia & New Zealand** — 21 days, leave April 5; incl. airfare, accommodations, 28 meals, Honolulu stopover; visit Sydney, Mt. Cook Natl. Park, Fiji, more; 3/rm. - $4,729 ea.; 2/rm. - $4,829 ea.; $5,929/single; $250 deposit due Nov. 30; balance due Feb. 5.

• **United Kingdom** — 16 days, depart August 4; incl. airfare, accommodations, 24 meals; visit Buckingham Palace, Stonehenge, Blarney Castle, more; 3/rm. - $2,629 ea.; 2/rm. - $2,679 ea.; $3,179/single; $250 deposit due Nov. 30; balance due June 4.

Camera Club

At the next meeting of the BNL Camera Club, a discussion of the latest trend in color printing will be held, and a summary of the recent PHOTO EXPO 1993 in New York City will be presented. The meeting will be on Thursday, December 2, at 5:30 p.m. For the location and more information, contact Ripp Bowman, Ext. 4672.

ANS Meeting

Jeffrey Coderre, of BNL's Medical Department, will speak on boron neutron-capture therapy at the next meeting of the Long Island Section of the American Nuclear Society (ANS), on Wednesday, December 1, at the Three Village Inn in Stony Brook.

Following cocktails at 6 p.m. and dinner at 7 p.m, the speaker will be introduced at 8 p.m by Herbert Susskind of BNL's Medical Department. For reservations, call Julie Teuber, Ext. 2513, by November 29.

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	740	94.3
WHFM	Southampton		95.3
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	

Or call:* 282-INFO

*Dial the letter O, *not* zero!

Cafeteria Menu

Monday, November 22

Soup: Minestrone	.80/1.10
A la Carte: Flank steak w/mushrooms	3.65
Fitness: Broccoli quiche	3.35
Deli: Pastrami sandwich	2.95
Grill: Reuben platter	2.95
Fitness Salad: Tuna flake bowl	

Tuesday, November 23
Thanksgiving Dinner Special

Soup: Shrimp bisque
A la Carte entrees:
Turkey breast w/gravy & stuffing
6-oz. Prime rib of beef au jus
Flounder fillet w/herb butter
Vegetables: Peas & onions, baby carrots, brussels sprouts & onions, or corn
Starches: Mashed potatoes, turnips, roast potatoes, or rice pilaf
Soup, one entree, veg., starch, dessert: $4.95
Full holiday meal: soup, salad, entree, 2 veg./starch, dessert, 12-oz. bev.: $5.95

Grill: BBQ pork sandwich	2.95
Fitness Salad: Chef's bowl	

Wednesday, November 24

Soup: Cream of spinach	.80/1.10
A la Carte: Manicotti w/veg.	3.35
Fitness: Chicken w/mushroom-dijon sauce	3.65
Deli: Virginia ham sandwich	2.95
Grill: Monte Cristo platter	2.95
Fitness Salad: Fresh fruit entree	

Note to Diners

The Cafeteria will only provide snack bar service from 9 a.m. to 2 p.m. daily over the Thanksgiving holiday weekend: Thursday, November 25, through Sunday, November 28.

The Brookhaven Center Club will be closed Thursday through Saturday, but will reopen at 5 p.m. on Sunday.

The vended-food service in Bldgs. 179 and 912 will be in operation throughout the Thanksgiving holiday.

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.

SCIENTIST - Experienced in semiconductor material, defect and interface characterization using electrical and microscopic methods, to develop and characterize improved CdTe and CdZnTe materials for use in nuclear detectors. Contact: Kelvin Lynn, Physics Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in physics or materials science, with experience in the synthesis and fabrication of cuprate superconductors by spray pyrolysis and related processing methods, to study materials science problems of relevance to the fabrication of cuprate superconductors. Contact: Masaki Suenaga, Department of Applied Science.

Motor Vehicles & Supplies

84 AMC ALLIANCE - ac, p/s, low mi., runs well, $900. 447-6528.

84 HONDA ACCORD LX - 5-spd., p/s, p/b, ac, cruise, runs well, $1,900. Monika, 821-4188.

84 LINCOLN TOWN CAR - 52k mi., orig. owner, chocolate brown, beige int., excel. cond., $4,200. Frank, 289-3830.

83 MAZDA PICKUP - white, excel. cond., no rust, $1,200. Julian, 924-0960.

83 PONTIAC FIREBIRD - V-6, m/t, sunroof, p/w, am/fm cass., p/booster, runs well, $1,500. George, 265-1276.

81 MUSTANG - 6-cyl., a/t, p/s, p/b, am/fm, blue/black, 138k mi, good cond., $1,200 neg. Janko, Ext. 2707 or 821-6916.

78 AUDI FOX - good body, runs, engine needs work, $300. Steve, 744-2040.

78 DATSUN PICKUP - a/t, runs well, extra parts, some rust, $150. Kevin, Tisett, Ext. 2214.

76 LANCIA SCORPION - 2-seat, mid-engine, needs some work, 107k mi., asking $2,500. John, Ext. 2788.

FASTBACK KIT - for '89-'92 Escort LX-GT, make offer. Bob, 821-0695.

PARTS - Honda Civic, to fit '80-'84 cars, lots available, cheap, engine, tranny, etc. Gary, Ext. 3751 or 589-5490.

PLOW - Meyers power-angle, 7½', good cond., $700 neg. 395-0568.

TIRES - 4, P185x70 R13, Michelin MXL, black wall, good cond., $15 ea.; 4, 205x65 VR15, Goodyear Eagle GA, v.g. cond., $30 ea. Larry, Ext. 3942.

89 VW CABRIOLET - convertible, ac, a/t, Blaupunkt, 58k mi., excel. cond., $11,500. 821-0686.

89 SUBARU GL WAGON - 4wd, 5-spd., all power, ac, am/fm cass., full-size spare, shop manual, top cond., $5,200. Ext. 4747 or 765-1075.

88 NISSAN SENTRA XE - h/b, red, ac, p/s, p/b, am/fm, a/t, 72k mi., damaged rear, $1,200 neg. Yoshi, Ext. 3202.

88 HONDA ACCORD LXI COUPE - ac, p/w, p/b, a/t, 73k mi., recent tires, brakes, v.g. cond., asking $6,500. Witkover, Ext. 4607.

87 SUBARU - h/b, 4-spd., ac, 72.5k mi., am/fm, new front tires, very reliable, clean, $2,000. 924-4929.

87 MONTERO - 4wd, blue/gray, 5-spd., p/s, p/b, ac, 25k rebuilt eng., new clutch, brakes, mint, $3,900. Tanya, 821-3168.

86 BUICK CENTURY - 110K mi., a/t, ac, good cond., $2,000. Ext. 5534.

86 AUDI 5000S - runs but needs work, $1,200; '79 Cherokee, runs, many good parts, $500 or best offer. 878-1178.

86 LE BARON GTS - turbo sport premium, 4-dr., all options, int. leather, Clarion audio, low mi., new brakes, tires, $5,000. Ann, Ext. 5740 or 744-8386.

86 DODGE ARIES - white, 5-spd., excel. cond., $1,700. Ute, Ext. 3890 or 341-1072.

85 HONDA PRELUDE - p/s, p/b, 5-spd., new brakes, clutch, am/fm cass., $1,800. Jack, Ext. 7493.

84 NISSAN SENTRA WAGON - 104k mi., blue, 5-spd., am/fm, new tires, $1,500. Nick, Ext. 2490.

82 DATSUN 200 SX - $650; '80 Buick Regal, many new parts, fair body, good running cond. $900 or best offer, Mitch, Ext. 4212 or 928-7732.

77 FORD LTD - 2-dr., p/s, p/b, ac, 136k mi., runs, $150. Dannie, Ext. 4581.

76 DODGE VAN - red, custom, 3-spd. m/t, new tires, needs right rear quarter panel, $1,500. Teri, 924-3385.

72 OLDS CUTLASS - 45k orig. mi., one owner, runs well, garaged in Queens, $1,000. 473-6546.

51 DODGE PICKUP - runs, some body work done, new glass in doors, $800. Guy, 758-6892.

AIR-CONDITIONING SYSTEM - Nissan, comp. compressor, rad., expansion valve, heat exchanger, all plumbing, $50. George, Ext. 4584.

BUMPER - CJ Jeep custom tube bumper w/light tabs & blue bikini top, $25 ea. Chuck, 821-1525.

CHEVY S/B PARTS - new magnum 1.6:1 rocker arms (roller), pistons (030 over), new torque converter for 350 tranny, more. George, Ext. 4584.

ENGINES - Ford 302, rebuilt 0 mi., 375-h.p., $700; Chev. 327 reblt. 30k mi., 360-h.p., $550. Rich, 929-8514.

TIRES - 4 ea., L-78-15, w/w, bias on rims, wil fit small Ford or Chrysler, $100. Ken, 289-8212.

Boats & Marine Supplies

25' AQUASPORT - 1987, w/200-h.p. Merc., 9.5 Yamaha kicker, dual batteries, Loran, radios, full canvas, excel. cond., $13,000 neg. 878-0480.

25' COLUMBIA II - 1991, Northsider, dinette, galley, V-berths, head, depth recorder, fish finder, cockpit liner, mint, many extras, $33,000 firm. Sue, Ext. 4931.

23' PEARSON - 1979, MJG head galley, 7.5-h.p. elec. start ob., sleeps 4, open cabin, fin keel, asking $6,000. John, Ext. 2788.

22' BOAT - 1979, 260-h.p. Chrysler i/o, full canvas camper top, $2,500; Cox EZ Loader trailer, dual axle options. Dennis, Ext. 4028.

21' T CRAFT - 115-h.p. Evinrude, tilt, trim, new EZ Loader trailer, CB radio, DF, many extras, $3,800. Vinny, 924-1455.

19' REGAL BOWRIDER - 115-h.p. Merc, 1988 trailer, p/winch, compass, DF, radio, new back-to-back seat, asking $3,800. Bob H., 654-3989.

OUTBOARD - 1990, 60-h.p., oil injected, p/trim/tilt, in water, will demo, $2,500. Bob, 689-9234.

18' HOBIE CATAMARAN - w/trailer, $800. Peter, Ext. 7579.

17' CANOES - aluminum, used, w/2 life jackets, great shape, limited quantity, first come, first pick, $350. Brad, 286-1966.

OUTBOARD - 9.9-h.p. Evinrude, 1981, many new parts & pumps; 2 fuel tanks, 3 & 6 gals., Dolfin, excel. cond., $450. Chuck, 821-1525.

Furnishings & Appliances

BEDROOM SET - w/queen platform bed, $325; dining room table, 4 chairs, hutch, $350 neg. Sal, 924-2726.

COUCHES - 2, one 6', one 5'. Tom, Ext. 2823.

CABINET - hardwood, $15; carpet, $25; fan, new, $24; Disney high chair, mint cond., $25; music mobile, new, $10. Ext. 5534 or 345-2686 after 6 p.m.

EASY CHAIR - reclining with built-in heater, simulated black leather, asking $40. Joe, 368-2167.

FREEZER - full-size, works well, $35. Mark, Ext. 4289.

FREEZER - upright, G.E., 20 cu. ft., v.g. cond., $100; d/r fixture, wagon wheel, 4-lamp, $35. 329-1277.

LAMP - heat & sun, on stand, like new, $5; 4 deck chairs w/cushions, used 1 season. $25. 475-1254 or 475-3366.

LIVING ROOM SET - Colonial, sleeper sofa, 2 chairs, 2 end tables, 2 lamps, $350. Biays, Ext. 2946.

MIRROR - pine, $10; fireplace screen, $20; tennis racket, $10; double-decker wicker basket, $45; spotlight, $10; hot plate, $10. Kathy, 744-2203.

RANGE/SELF-CLEANING OVEN - GE, electric, many options, v.g. cond., $170. Ext. 3701 or 751-8128.

ROCKER - Newport, $35; John Stuart walnut king headboard, iron white-gold twin headboard; Brother elect. typewriter; ping pong table. 473-7681.

WALL UNIT - sofa, loveseat, recliner, butcher block table, bedroom set, washing machine, etc., neg. Sheryl, Ext. 7716.

WASHER & DRYER - Kenmore, like new, portable, apt. size, $200. 447-6820.

WASHER & DRYER - Sears, apt.-sized, 2 yrs. old, $400. Mauro, 265-6542.

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

ARMCHAIR - rocker, blue, $50; 2 table lamps, $25/ea.; dining room pine hutch, $225; bedroom set, $275. Sal, 924-2726.

CAPTAIN'S BEDS - w/mattresses, 2 twin size, 2 years old, excel. cond., w/3 drawers in base, $175/ea. Mort, 286-8448.

BEDROOM SET - natural wood, 3-piece wall unit, armchairs, 4-piece dining room set, more. 423-9750.

COFFEE MAKER - Bunn, automatic commercial, 3 warmers, access., like new, $225. Keith, Ext. 5355.

COFFEE TABLE - English, 52"x23", end table, 27"x22" glass top, gold frame, orig. $400, sell for $100/both. 821-6856.

DINING ROOM - 42" round table, w/2 leaves, 4 chairs, corner hutch, dark pine, $400. Rich, 929-6197.

DINING TABLE - dark brown, extendable, oval, mint, $20; mattress, spring, box frame, full size, used 4 mos., moving. Bonnie, 878-0845.

DRAFTING TABLE - professional, 5 , complete $100; large light table, 4'x5', $225. Rich, 929-8514.

ELECTRIC GRILL - Sunbeam/Oster, Nu-Stone, indoor, new, never used, $20. Joe, Ext. 4212.

ELECTRIC RANGE - GE; elec. hot water heater, both good cond., $100/both. 654-0812.

FAN - hardly used, new style, $24; twin bed, mint cond., $100. Ext. 5534.

FURNITURE - living room set, sofa, loveseat, recliner, oak tables, lamps, washing machine, more. Sheryl, Ext. 7716.

REFRIGERATOR - GE, apt. size, 24" wide, 53" high, excel. cond., not frost-free, $75. Chuck, 821-1525.

ROCKING CHAIR - dark pine, $75. 744-2060.

TRASH COMPACTOR - like new, stands alone or can be built into cabinet, orig. $250, sell for $75. Bob, Ext. 3509 or 289-9533.

TRESTLE TABLE - pine, w/drop leaf, 5' long., $100. Anthony, Ext. 2138.

WATER BED MATTRESS - king-size, heater, no frame, excel. cond., $50. Chuck, 821-1525.

WATER BED - king-size, pine, 4-poster, w/ mattress, liner, heater, excel., $190. Sheila, 246-5070.

Tools, House & Garden

HEATER - kerosene, Omni, 85k-Btu, new, $45; generator, 5,000-W, elec. start, used once, $450. 329-1277.

LEAF SHREDDER - Flowtron, elect., $20. John, Ext. 2460 or 281-2471.

POOL PUMP - ¾-h.p. motor, 25-gal., s/s tank, no rust, v.g. cond., $40 neg. Bill, 281-6498.

SHUTTERS - wood, seven 67"x16", nine 51"x16", used, in good cond., $15/ea. Bob, 821-0695.

SKYLIGHT - brand-new, Insuladome, in box, 30"x45", non-venting, $200. Jim, Ext. 2350 or 928-0397.

STORM DOOR - 36" Emco, white, self-storing screen & window, right side hinge, steel ent. door 36" w/ locks, $150, best offer. Bob H., 654-3989.

STOVE - DeVille, wood/coal, never used, heats 1,500 sq. ft., rear vent, glass front, $300 neg. Bill, 281-6498.

TREES - Japanese maples, $10-$45+. Mauro, 265-6542.

BURNER - Beckett AFII, .75-1.50 GP, orig. $300, now $200. Bobby, Ext. 4639 or 283-7986 after 5:30 p.m.

CEMENT MIXER - ½-bag, elec. motor, $150. 758-5592.

CHAIN SAW - elec., 2.25-h.p., splitting maul, wedges, 100' extension, like new, $90/all. Sheila, 246-5070.

COAL STOVE - Surdiac, black textured, glass front, clean, like new, $375. 744-2060.

HOT TUB - full-size, w/power pack, $2,250; plow, elec., hydraulic power plow, frame, full-size, you pick up, $550. Guy, 758-6892.

PLANT - 6', ficus, living, healthy, potted, indoor, beautifully shaped, must sell, $35 or best offer. Jan, Ext. 1239.

POINSETTIA - florist-quality, various sizes, low prices. 727-6818 after 4 p.m.

STEP LADDER - 5', heavy-duty, aluminum, like new, $25. Bob, Ext. 5314.

WOOD STOVE - Wilton Willow, complete, w/pipe, asking $200. Joe, 924-8433.

Sports, Hobbies & Pets

BICYCLE - girl's, 26", 10-spd., European racing bike, never used, orig. $300, ask. $125. Joe, 368-2167.

BICYCLES - 2, Ross Mt. Washington mountain bike, Fuji 20" BMX style. Ext. 7225 or 929-6748.

BIKES - 11", 15", 19" wheels, all in good cond., $20/ea. Chan, Ext. 4059.

BOW - compound hunting, Golden Eagle, 60-lb., w/quiver & arrows, $95. Mark, Ext. 4289.

EXERCISE BICYCLE - sturdy, good cond., asking $25; fish tank, 24-gal., high, w/wrought iron stand, $25. Joe, 368-2167.

FISH TANK - 30-gal., complete setup, saltwater, $85; 5 vending machines, candy, triple, $175/ea. Chris, 472-5826.

SKATES - hockey, almost new, Bauer turbo, size 4, $20; Vic Silver, size 6, $30. Ext. 4567.

SKIS - Olin 190, w/size 8 boots, used 1 season, ski bag, poles, asking $100. Don, 360-3803.

SNOW BOARD BOOTS - Airwalks, used 2 times, size 7, like new, $100 firm. Ext. 2138 or 286-1467 after 5.

STEP- Jane Fonda's step & step-aerobic w/tape, used once, $25. Cheryl, Ext. 2272.

WEIGHT BENCH - Weider, w/attachments, 150 lbs. in weights, 2 years old, make offer. Tony, 281-2513.

BIKE - women's, 10-spd., pink, 5 mos. old, $45. Ute, Ext. 3890 or 341-1072.

BOWLING BALL - kids', new, still in box, 8 lbs., $30. Ext. 2138.

CAMERA - Minolta Maxxum 7000, 2 lenses, flash, carry case, owner's manual, asking $400. Chris, Ext. 2022 or 395-6112.

CAMERAS - 2, 8mm, $20/ea.; light bar, $10; projector, $20, all good. Anthony, Ext. 2138.

FISH TANK - 135-gal., all glass, w/stand. Jim, Ext. 4617.

GOLF CLUBS - Arnold Palmer, complete set, w/bag, almost new, used once, $250. Ext. 5080 or 751-1884.

HORSE - share part board, 15.3 gelding, indoor arena, rings, trails, generous riding arrangements, West/Eng. Pat, Ext. 5406.

LABRADOR PUPPIES - AKC, OFA, 33 field champions, nine national, in 5 generations, reservations taken. 878-2577.

MINI BIKE - frame, tires, needs motor, good cond., $100. Anthony, 286-1467.

SKIIS - Rossignol, 180, Tyrolia bindings, tuned, excel., $100. 744-2060.

WEIGHTS & BENCH - 300+ of weights, bench w/leg attach. & adjustable back, suitable for beginner, asking $50. Chris, Ext. 2022 or 395-6112.

Audio, Video & Computer

COMPUTER - ABest, 386DX-33, w/387-33 coproc., 120 MB HD, 8 mb RAM, 1.2 & 1.4 MB floppy, 14" Super VGA 1MB, $1,000 firm. John, Ext. 5883.

COMPUTER - 486SX33, 100 MB HD, 3½ and 5¼ floppies, 2 meg RAM. 582-6241.

COMPUTER - laptop, Sharp MZ-100, 10 MHz XT, dual 720k floppies, 640k RAM expandable, 640x400 backlight 10" LED display, $150. Len, Ext. 5010.

COMPUTER - Tandy, 128k extended basic keyboard, disk drive, joystick, printer, software, games, $300. 473-7681.

COMPUTER - XT, w/Panasonic mono monitor, $100 or best offer. Ext. 5534 or 345-2686 after 6 p.m.

FLIGHT SIMULATOR - Microsoft, latest version, new, in box, $25. John, Ext. 2460 or 281-2471.

VCR - remote, $300. Charlie, Ext. 7264.

CAMCORDER - 8mm Chinon, high-speed shutter, lens, $40; batteries, charger, ac adapter, case, orig. $1,200, asking $400. Bob, Ext. 3509 or 289-9533.

COMPUTER - Commodore 64, 1541 disk drive, joysticks, software, manuals, $125. Rich, 929-6197.

COMPUTER - Amiga 2000, 40 MB HD, 1040 S mon., software, manuals, games, excel. for developing graphics programs, ask. $1,300. Charlie, Ext. 7264.

COMPUTER - 286, 12" mono amber monitor, 40 MB HD, 2 HD FD drives, $180. Bonnie, 878-0845.

COMPUTER PARTS - Seagate 85 MB HD & 16-bit MFM controller, ST-4096, $125; Stacker software version 2.0, $25. Marty, 286-7480.

KEYBOARD - Yamaha, PSR-41, 61 keys, many extras, case, stand, power supplies, orig. $450, sell for $200. Chuck, 821-1525.

NINTENDO GAMES - $5-$10/ea., power pad, $10; Ext. 2679 or 472-6922.

TV - 19", Sharp, color TV, no remote, $65 neg. Kevin, Ext. 2175.

TV - Goldstar, 13", 5 mo. old, $150; Panasonic VCR, $100. Ute, Ext. 3890 or 341-1072.

VIDEO PATTERN GENERATOR - Leader # LCG-400, new, in box, with manual, make offer. Chris, Ext. 2022 or 395-6112.

Miscellaneous

CAR SEAT - Evenflo, $35; Century walker, $10; playpen, $18. Arnold, 473-6432.

JACK LALANNE LIFETIME MEMBERSHIP - unlimited use, all Bally's clubs, $39/per year renewal, $500 or best offer. 582-6241.

MUSIC MOBILE - mint cond., Ext. 5534 or 345-2686 after 6 p.m.

TOYS - roller blades, size 8½, $12; Mr. Potato Head people & clubhouse, $7; kid's puzzles, $3. 472-3254.

BABY'S ITEMS - wooden port-a-crib; portable stroller, used 1 week; baby swing; changing table, all like new. Bob, Ext. 3509 or 289-9533.

BOY'S SNOWSUIT - 1-piece, like new, size 12, for skiing, $30. 286-1467.

CHRISTMAS TREE - artificial, 6', w/200 lights, $20. Yoshi, Ext. 3202.

HUMMEL PLATES - '78 & '79, in orig. boxes, $125/ea., or $225/both. Joe, Ext. 2898.

WOMEN'S BOOTS - high, leather, 2 pairs, Golo, 9½, med. heel, brown, Dingo high heel, size 9, $90/each pair. Elise, 286-7480.

OPERA TICKETS - 2, Metropolitan, *Fidelio*, Sat. mat., 12/4, excel. seats, Leith, 751-7551.

OPERA TICKETS - Metropolitan, *Barber of Seville*, 12/25, 1:30 p.m., $30; 12/31, 8 p.m., $20; *La Boheme*, 12/29, 8 p.m., $20. Ext. 3116.

PHONE - $10; half cord seasoned wood, $50; toy box, $10; 1950 bar, $65; new tire, 195-60-R13, $25. Kathy, 744-2203.

RABBIT COAT - women's size S, full length, $75. Joe, 368-2167.

WATCH - Seiko, new, men's, chronograph, never used, list $395, asking $200. Darcy, Ext. 3362.

Free

CAT - beautiful, orange/white, needs loving home, house broken, very affectionate. Rosemary, Ext. 5036.

COAL - free, approximately ½ ton, you pick up. Tom, Ext. 4866.

TIRE COVER - VW Bus, plastic, for inside bus storage. Marcia, 286-9024.

Car Pools

STONY BROOK - M section or nearby areas. Ext. 5080 or 751-1884.

Wanted

BABY-SITTER - German-speaking. Stas, Ext. 7849 or 821-0459.

MARINE FISH - looking for healthy, inexpensive, tropical saltwater fish. Jim, Ext. 4617.

PEOPLE - interested in a lunchtime French table. Robin, Ext. 4967.

REEBOK STEP - w/videotape. Leith, 751-7551.

TWO TICKETS - for *Messiah* at Carnegie Hall for Fr Sat. eve., 12/17 or 12/18 (18th preferred), 1st tie boxes. Ext. 2280.

TRAINS - Lionel & American Flyer, priv. collection, pays top $. Ext. 7100 or 924-4097.

In Appreciation

Thanks to all my friends and coworkers for all your kind expressions of love and sympathy following the loss of my mom. — April Donegain

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