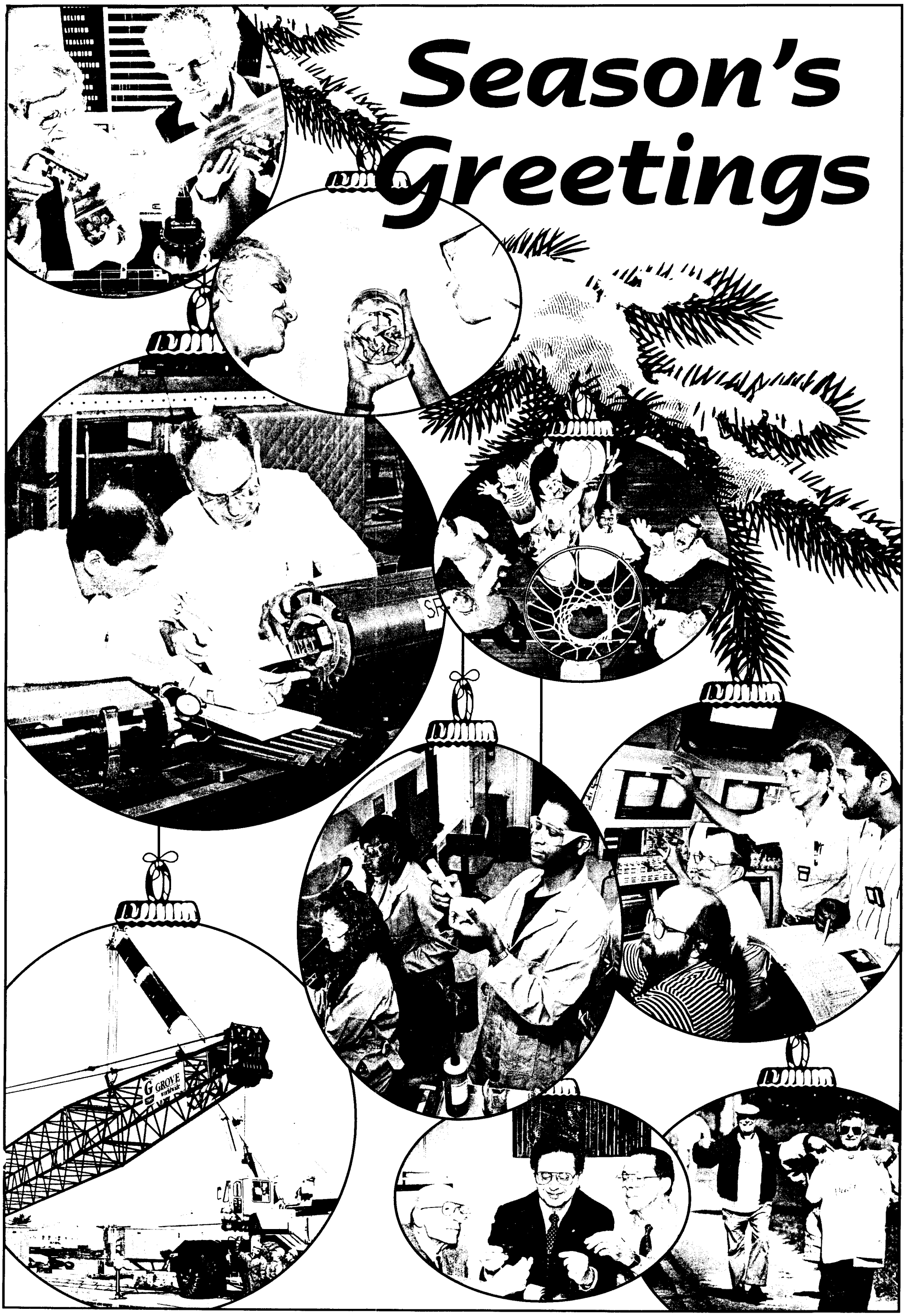
BROOKHAVEN BULLETIN

Vol. 47 - No. 49 December 17, 1993

BROOKHAVEN NATIONAL LABORATORY



Seven Recognized for Contributions to the Laboratory

In two separate ceremonies this week, BNL Director Nicholas Samios presented the Laboratory's two highest honors to seven staff members. Summaries of each recipient's contributions are given here, and greater detail will be provided in the Bulletin of January 7.

On Monday, December 13, the two Brookhaven scientists pictured at right were honored with 1993 Distinguished Research & Development Awards, each receiving a check for $5,000, before taxes, and an engraved memento. The highest of the four types of awards in the Employee Recognition Program, this award recognizes distinguished contributions, over a period of one or more years, to the Lab's research and development mission.

The 1993 Brookhaven Awards were bestowed on Tuesday, December 14, recognizing the five employees shown below for key contributions in support areas and outstanding service to BNL. Each award consists of $2,000, before taxes, and an engraved memento.

Michael Brennan, Physicist, Alternating Gradient Synchrotron (AGS) Department, has established himself as one of the world's preeminent accelerator physicists specializing in radio frequency (rf) acceleration systems. With his unique abilities, Brennan has made outstanding contributions to the design, construction and leadership of the Booster and AGS rf projects.

Gen Shirane, Senior Physicist, Physics Department, is recognized as the world's leading expert in the utilization of neutron scattering techniques as probes in solid-state physics. His 30-year career in neutron scattering has produced nearly 500 scientific papers, many of which opened up new fields or provided the key experiment in unraveling difficult solid-state problems.

Joseph Hanson, Technical Supervisor, Photography & Graphic Arts Division, is being commended for overseeing the Quick Copy service during 15 years of ever-increasing demand. Hanson's supervision and attention to detail have been critical to the production of some 1.5 million copies per month.

Bruce Penn, Department Administrative Manager, Department of Advanced Technology (DAT), was honored for his outstanding contributions to DAT's administration, including the areas of control, management and cost reduction. In one case, his efforts saved over $1 million on closure of a significant program.

Alfred Roebuck, Senior Technical Supervisor, Physics Department, was honored for his key contributions to experimental physics through his supervision of the Physics Machine Shop for 20 years, coordinating a staff that serves the diverse needs of researchers at many of BNL's major scientific facilities.

Ralph Sanders, Senior Research Engineer, Alternating Gradient Synchrotron Department, was acknowledged for his innovative engineering of many important projects during his 28 years with the Lab. In particular, he was cited for the design, construction and operation of the AGS rf acceleration systems.

Neal Tempel, Senior Staff Specialist, Biology Department, has shown excellence in carrying out his responsibilities as Biology's environment, safety & health coordinator, energy coordinator and building manager, including long-range planning for construction and renovations and general building maintenance.

Winners' Circle

Employees with ideas for enhancing Lab safety or saving BNL money in areas outside their own job responsibilities should consider submitting their suggestions to the Employee Suggestion Program (ESP). ESP forms are available in department and division offices and through Personnel, Bldg. 185. An original idea could win 10 percent of the estimated savings, up to a maximum of $10,000.

Congratulations to the following BNLers who have entered the ESP winners' circle:

Patrick Asendorf, an assistant staff specialist in the Biology Department, received $25 for his suggestion to install "No Parking" signs at handicap ramps. His suggestion is expected to enhance employee safety.

•

Lorraine Barry, a personnel assistant in the Personnel Division, identified a potential traffic hazard at the Main Gate and entrance to the Child Development Center (CDC). As a result of her suggestion, BNL patrol officers now place cones at this location so that drivers will not change lanes to access the CDC entrance. Barry received $50 for enhancing safety for employees and their children.

•

Anne Flood, a senior administrative assistant for the RHIC Project, received $50 for her suggestion to add "Private" envelopes to BNL stationery stock. Suggestions for additions to or modifications of stock items are not usually eligible for award consideration; however, exceptions are made when suggestions are deemed unique and/or of universal interest. Private envelopes, which are available from stock as item No. S-32105 and have been in use for some time, have been exceptionally well received and widely used throughout the Lab.

•

Victor Gutierrez, a QA engineer for the Director's Office, received $25 for his suggestion to install backup alarms on vans. Implementation of his suggestion has resulted in increased safety.

•

Retiree **Eugene Kaplan** was a senior technical specialist in the Alternating Gradient Synchrotron Department when he was awarded $25 for his suggestion to paint no-parking zones in front of fire hydrants. By pointing out specific locations that had been overlooked, such as the hydrant in front of the Credit Union, Kaplan has enhanced safety at BNL.

•

Barbara Pringle, an administrative assistant in the Division of Contracts & Procurement, was awarded $25 for her suggestion to provide handicapped parking in close proximity to the handicap ramp at the Upton Post Office. Pringle's suggestion resulted in increased safety for BNL's disabled employees, guests and visitors.

•

Jeffrey Tabacco, a custodian in the Plant Engineering Division, received $25 for his suggestion for increasing awareness of BNL's recycling efforts by installing a sign at the Lab entrance reminding employees to recycle.

Taking It Seriously — Even False Alarms

Passers-by who saw flashing lights and uniformed officers on Technology Street on Wednesday, December 8, may have wondered what was going on.

The hubbub centered on a construction site between the National Synchrotron Light Source and the east side of the Physics Building, where workers installing a chilled water line had found a sealed metal cylinder while backfilling a 15-foot-deep hole.

Knowing that mines and other munitions left over from the site's days as the U.S. Army's Camp Upton have been found elsewhere, the workers decided to play it safe and stay away until the object could be identified. They notified BNL Police, who called in the Fire/Rescue Group, and examined and photographed the object while sealing off the area from traffic as a precaution.

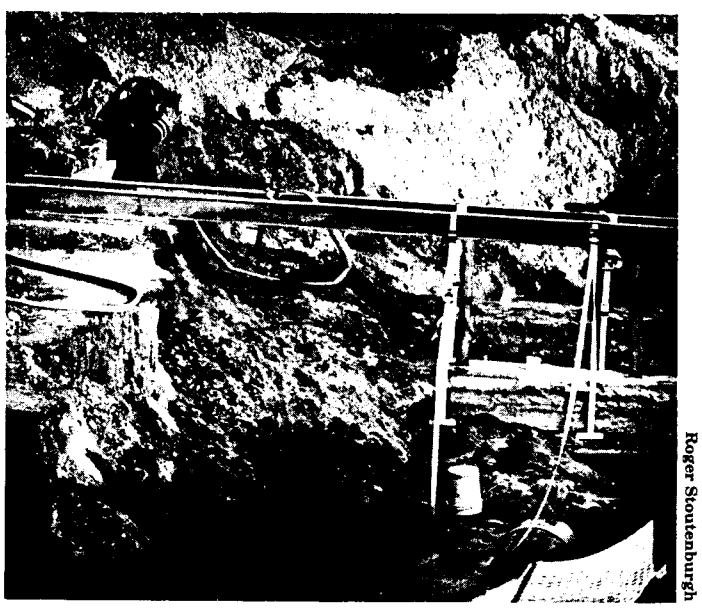
"It was about the size of a five-gallon can, with two ribs and bolts on the top," said Police Chief Al Berretta. "It was rusted, so the only marking we could make out was yellow paint on one end," which could have indicated the object was a hazardous ordnance.

But, neither BNL officials nor the Suffolk County Emergency Services bomb squad, which was called in next, could say for sure what was sitting there. After radiation scans registered nothing, a Suffolk County remote-controlled robot, followed by an agent in a black bomb-proof "moon suit", were sent down to investigate and bring the device up to be detonated at the Police Group's grenade range.

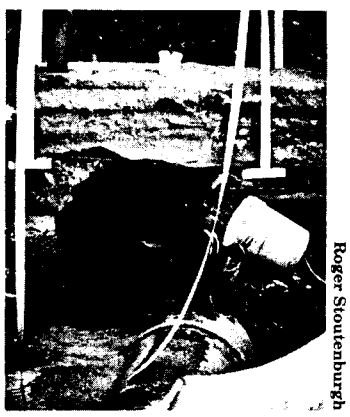
Meanwhile, officers on the scene contended with some pedestrians who ducked under the yellow caution tape. "We put up these police lines for the safety of the people, and they should not be breached," Berretta said.

In the end, Suffolk County bomb experts determined that the object was too heavy to be a munition. A Plant Engineering employee identified it as a bulldozer-type track guide part, and the cylinder was placed on the scrap heap.

The part will probably end up as a souvenir on Berretta's desk, but even the false alarm was worth taking seriously, the chief says. "It's better to be on the side of safety," when dealing with potential explosives, he continued. If you come across any unknown devices while digging or walking on the site, play it safe: Call the police headquarters' emergency number, Ext. 2222.



Roger Stoutenburgh



Roger Stoutenburgh

A member of the Suffolk County Emergency Services team prepares to enter a construction site hole (photo left) to examine and retrieve an unidentified buried object (UBO) found there last Wednesday and thought to be a leftover mine. Above, he takes a closer look at the UBO, which later turned out to be a tractor part.

Addled Addresses

- Brookhaven (Tapes)
- Brookhaven Nution Lab
- Brooklyn Nat'l Lab
- Beookhaven National Laboratory
- Pupton, New York 11973

Voice Message Test

On Wednesday, December 29, the existing VMX voice mail service will stop accepting messages, as the new Octel voice mail service will automatically come on line to take its place and all VMX users automatically will become Octel subscribers. The VMX system will be taken out of service for good on Friday, January 7.

In the meantime, on Wednesday, December 22, final testing of the Octel system will take place. As a result, voice mail will not be available at BNL between 6 p.m. and 9 p.m. that day. First thing the next day, users may hear the dial tone that indicates that they have messages, but they will have to check the Octel system to be sure.

To use the Octel system, voice mail subscribers must initialize their mailboxes. To do this, use the instructions provided during last week's Octel training classes; or dial the Octel access extension, Ext. 7500, and follow the directions given over the phone; or call Nick Pisco, Ext. 2000, to obtain Octel pamphlets describing the system and its procedures.

Bowling

Red/Green League
E. Larsen bowled a 246/210/628 scratch series, J. Goode 238/200/620 scratch, R. Wiseman 236/214/204/654 scratch, E. Meier 236, R. Mulderig Jr. 221/607 scratch, O. Mirjah 218, K. Riker 215/202, K. Asselta 214, E. Beadle 211, R. Larsen 203/200, K. Koebel 203, P. Ouvrard 203, R. Raynis 202.

Purple League
Ray Raynis bowled a 225/205, Manny Dador 208, Norm Bessemer 201, Maryann Reynolds 195/177, Tirre Farmer 193. Lynette Finlay converted the 6/7/10 split.

White League
John Niemczyk bowled 227, Bob Geib 225, Kevin Carney 225, Jim Goode 221, Gerrie Riker 199/188/170, Pat Manzella 196/193, Lorraine Roecklein 188/175, Sharon Smith 172. Lorraine Petro converted the 4/7/10 split, Gerrie Riker 6/10, Diane Romano 4/6.

BROOKHAVEN BULLETIN
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for the employees of
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ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

As 1993 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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Photography & Graphic Arts Division
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Computer Graphics
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Personnel Division, Personnel Records
Louisa Barone, Sharon Goode, Bonnie Miller, Darlene Peragine

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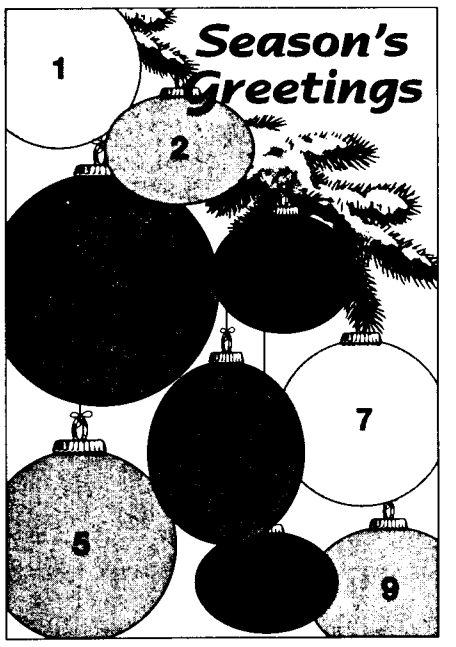
On the Cover. . .

'Tis the Season to Look Back

The BNL tree on our holiday cover was decorated by graphic artist Kathy Foy, Photography & Graphic Arts Division. The photos, which all appeared in the Brookhaven Bulletin this past year, highlight some of the activities and successes of 1993 (see key):

1. The Long Trace Profiler (LTP) is *the* standard instrument for measuring the shape of synchrotron radiation mirrors. In September, BNL and Continental Optical Corporation of Hauppauge were joint winners of a 1993 R&D 100 Award for the LTP II, for which Peter Takacs (left), Instrumentation Division, was a principal developer. Here, Takacs prepares a mirror for LTP testing with Manfred Grindel of Continental Optical, which signed a Cooperative Research and Development Agreement (CRADA) with BNL in March to improve the performance and capabilities of the LTP. This was one of ten CRADAs the Lab signed in 1994.



2. In July, a Biology Department team that included Richard Setlow and Eleanor Grist (shown) published their results of experiments with fish, which show that the skin cancer known as malignant melanoma can be induced by all wavelengths of the sun's ultraviolet rays.

3. After the first two of 300 superconducting sextupole magnets for the Relativistic Heavy Ion Collider (RHIC) arrived at BNL on August 9, Roy Lebel (left) and Melvin Lindner, RHIC Project, were among those who inspected these first superconducting magnets produced by U.S. industry for use in an accelerator.

4. The Brookhaven Employees Recreation Association (BERA) had a busy year, welcoming a new Bridge Club in June and, throughout the year, crowning champs in various BERA sports, including basketball, in which the Runaways (pictured) repeated as champions in April.

5. Several new vehicles began operating on site this year, including this 150-ton lattice-boom crane delivered to the Plant Engineering Division in February, as well as 20 mini trucks, a 10-wheel refuse truck and a customized 16-ton pumper for the Fire/Rescue Group.

6. These students working in this Medical Department laboratory were among more than 300 students and teachers who participated in summer research at BNL this year.

7. Over the July 4th weekend, as proton intensities at BNL's Alternating Gradient Synchrotron (AGS) rose to record highs — topping 2.36 x 10^{13} — the intensity in the AGS Main Control Room was also high for: (from left) Keith Zeno, Bob Diem, Henry Ashby and Neville Williams.

8. For their 1964 discovery of the omega-minus particle, which validated the quark model of elementary particles, (from left) Ralph Shutt, Nicholas Samios and Robert Palmer shared the 1993 W.K.H. Panofsky Prize of the American Physical Society. Today, Samios is Laboratory Director, Palmer heads BNL's Center for Accelerator Physics — and Shutt will retire at the end of December as a senior physicist with the RHIC Project with 46 years of service, having joined the Lab in 1947 to lead cloud chamber and then bubble chamber efforts, first at the Cosmotron and then at the AGS.

9. A 2-mile Fitness Walk was just one of the many events held during *Healthfest* '93, a four-day celebration of health, fitness and safety, held in October.

Here Comes Santa Claus!

For the 11th year, Santa Claus will be coming to Upton town, sharing good cheer and distributing candy canes, compliments of BNL's Fire/Rescue Group and the rest of the Safety & Environmental Protection Division. This year, for the first time, former elf, Sergeant Chuck LaSalla, will be playing Santa, while Firefighter Frank Palmeri Jr. will assume the elfin duties.

With Fire Engine #2 as their sleigh, Santa and his elf will visit the Child Development Center on Monday, December 20, at 9:30 a.m. Then, they'll make the rounds of offices and laboratories on Thursday, December 23, beginning at 9:30 a.m. While they will try to visit every building on site, if they missed yours in the past or if you want Santa to make a special appearance in your workplace, call the North Pole at Ext. 2351 to make a reservation.

©1993 by Sidney Harris – *From Personal Ads to Cloning Labs,* W.H. Freeman and Company

Holiday Notes & Schedules

In observance of Christmas and New Year's Day, the Lab will be closed for a half day on Thursday, December 23, and the entire days of Friday, December 24, and Friday, December 31. As a result, the following schedules will be in effect:

• **Brookhaven Bulletin** — There will be no Bulletin next week; the next issue will be distributed on Thursday, December 30. The classified ad deadline for that issue is 4:30 p.m. on Tuesday, December 21; other submittals are due by noon on Monday, December 27. The classified ad deadline for the following issue, on January 7, will be 4:30 p.m. on Thursday, December 30.

• **Credit Union** — The Teachers Federal Credit Union will close at 1 p.m. on Christmas Eve, Friday, December 24, and on New Year's Eve, Friday, December 31. 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. on Thursday, December 23, and weekend service from 9 a.m. to 2 p.m. on Friday and Sunday, December 24 & 26; it will be closed on Saturday, Christmas Day. The next week, the Cafeteria will offer weekend service, 9 a.m. to 2 p.m., on Friday, December 31, and Sunday, January 2; it will be closed on Saturday, New Year's Day. The Brookhaven Center Club will be closed Thursday and Friday, December 23 & 24, and Friday, December 31; on Sundays, December 26 and January 2, it will be open from 5 to 9 p.m. The vended food service in Bldgs. 912 and 179 will be available at all times and serviced regularly.

• **Gymnasium & Pool** — The gym and pool will be closed both Christmas and New Year's weekends: from Thursday, December 23, through Sunday, December 26; and again from Friday, December 31, through Sunday, January 2. The gym and pool will be open during the work week, and the usual schedule will resume Monday, January 3.

• **Recreation Building** — The Recreation Building in the apartment area will be closed from Monday, December 20, through Sunday, January 2. Regular hours will resume on Monday, January 3.

• **U.S. Post Office** — The Upton Branch of the U.S. Postal Service will operate at regular hours throughout the holiday period. After the Christmas mailing rush is over, starting with Christmas Day, the office will cease its temporary Saturday window hours. So, the last Saturday that the Upton Post Office will be open is tomorrow, December 18. Weekday window hours, 8 a.m. to 4:45 p.m., will continue as usual.

• **Weekly Calendar** — The deadline for submittals for the Weekly Calendar for the week of December 27 is noon on Monday, December 20; the deadline for the week of January 3 is noon on Monday, December 27.

Last Day to Shop At Science Store

The Science Store at the BNL Science Museum is open for the last day this season, today, Friday, December 17, from 10 a.m. to 3 p.m. The store is in the west side of Bldg. 701; park in the north parking lot.

C & C++ Classes

From January 24 through February 4, an introduction to C++ programming class and an advanced C++ class will be offered during half-day sessions. Both classes will be taught on a UNIX platform. The cost for the introductory class is $590 per person; the cost for the advanced class is $690. These classes are almost full, and registration is first come, first served. To register, send an ILR for the appropriate amount to Maria Gatz, Bldg. 515.

In late February or early March, an introduction to C programming and an advanced C programming class will be taught, also on a UNIX platform. For more information, contact Maria Gatz, Ext. 5196.

Equipment Demo

Altera Corporation will present its seminar on programmable logic devices and development tools on Tuesday, December 21, from noon to 1:30 p.m. in Berkner Hall. The focus will be on MAX7000 high-speed EPLDs, FLEX8000 in-circuit reconfigurable FPGAs, and software development tools and programming hardware.

Software Demo

Charlie Mitchell and Dave Nadelson of Oracle Corporation will be at BNL on Monday, December 20, in the CCD seminar room, Bldg. 515, at 2 p.m., to demonstrate Oracle RDBMS software. Examples of form and report generation, in addition to browsing capabilities, will be included.

For further information, contact Sharon Spark, Ext. 4111, or send E-mail to SPARK@BNL.GOV.

Volleyball

Standings as of December 8

Open League		League I	
GTEAM	22-8	Rude Dogs	17-7
Me and the Boys	19-8	Upfagrabs	18-9
The Roofing Co.	17-13	Network News	12-12
Far Side	10-17	Underdogs	10-17
Penetrating Vollies	4-26	Fornossing	6-18

League 2		League 3	
Safe Sets	20-4	Silver Bullets	15-6
Nuts & Bolts	19-5	Jolly Vollies	14-7
Net Wits	15-9	Take Five	12-9
Mon. Night Live	13-11	Slow Hands	10-11
Fossils	12-12	High Volley'em	9-12
Night Court	10-14	Upton Ups	3-18
Spiked Punch	5-19		
NTTP	2-22		

Cafeteria Menu

Monday, December 20

Soup: Bean, tomato & fennel	.80/1.10
A la Carte: London broil w/mushrooms	3.65
Fitness: Broccoli quiche	3.35
Deli: Pastrami sandwich	2.95
Grill: Reuben	2.95
Salad: Tuna flake bowl	

Tuesday, December 21

Soup: Chicken & rice.	.80/1.10
A la Carte: Chicken piccata	3.65
Fitness: Sole w/onion, tomato, oregano	3.75
Deli: Hot roast beef au jus	2.95
Grill: BBQ pork sandwich	2.95
Salad: Chef's salad	

Wednesday, December 22

Special Christmas Luncheon

Soup: Onion	.80/1.10
Entrees: London broil w/mushroom ragout	3.85
Flounder w/raisins, walnuts & shallots	3.85
Vegetables: double-stuffed baked potatoes, classic peas & carrots, broccoli Polonaise	
Deli: Smoked ham & Brie croissant	2.75
Grill: Marinated chicken club	3.45
Salad: Festive spinach salad	

Thursday, December 23

Soup: Soup du jour	.80/1.10

Open Buffet - 11:15 a.m. to 1 p.m.

Catch a glimpse of
GLANCE
playing in Berkner Hall
weekdays, 8:30 a.m. to 4:00 p.m.
Show changes every Tuesday.

Arrivals & Departures

Arrivals

Marcus A. Babzien ..... NSLS
Kai Hu ..... Adv. Tech.
Toan Q. Nguyen ..... Comp. & Comm.
Peter F. Picciano ..... Plant Eng.

Departures

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

Rajasekhar Balasubramanian ... DAS

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.

SCIENTISTS AND POSTDOCTORAL RESEARCH ASSOCIATES - Trained in high energy theory, to join a research group whose activities currently involve electroweak phenomenology, quantum chromodynamics, lattice gauge theories and finite temperature field theory. Contact: William Marciano, Physics Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in genetics, biochemistry or microbiology, with experience in molecular biology, to investigate the regulation of genetic expression of restriction enzyme systems, and characterization of the endonucleases and methylases, including the interaction of these proteins with DNA. Contact: Sanford Lacks, Biology Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry, with expertise in macrocycle chemistry, and experience in flash-photolysis and pulse-radiolysis techniques, and in the evaluation and interpretation of complex rate laws, to study mechanisms of thermal and photoinduced reactions of transition-metal complexes in solution. Contact: Carol Creutz, Chemistry Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in pharmacological or biochemical science, with experience in drug distribution and pharmacokinetics in animal tumor models. The task is to oversee a drug-screening program where compounds are to be evaluated *in vitro* and *in vivo*. Contact: Jeffrey Coderre, Medical Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 2599. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, significant administrative experience, excellent communication skills and demonstrated organization skills. WordPerfect 5.1 and IPAP travel experience also required. Will be responsible for providing support to the manager and staff of the Quality Assurance Office. Director's Office.

DD 0673. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, previous relevant Laboratory experience, excellent communication skills and demonstrated organizational skills. A knowledge of Laboratory policies and procedures, and familiarity with Laboratory organizational units highly desirable. Will provide varied secretarial support to the staff of the Office of the Associate Director for Administration. WordPerfect 5.1, DOS, Harvard Graphics, Rbase and IPAP travel system experience also required; Novell network experience desired. Director's Office.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 8868. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, excellent record-keeping, organization and communication skills, and a knowledge of word processing and databases. WordPerfect and Rbase experience highly desirable. Will perform a wide range of secretarial duties for the Training and Procedures Group, such as maintaining, updating and revising information in training databases; preparing procedures, correspondence and reports; arranging travel; and organizing and maintaining files. (reposting) Reactor Division.

MK 2965. TRAINER POSITION - Requires a bachelor's degree or equivalent experience, a master's degree in instructional technology desired, 3-5 years' experience in the development of technical skills training programs in an R&D or industrial environment, and strong oral and written communication skills. Experience with the design of computer-based and multimedia training highly desirable. Will be responsible for providing expert assistance for the design, development and evaluation of training programs. Personnel Division.

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

Motor Vehicles & Supplies

93 VW GOLF III - white, 5-spd., ac, radio, alarm, beige int., clean, like new, 6k mi., $12,500. Amy, 924-7552.

90 HONDA ACCORD EX - 4-dr., a/t, p/w, p/b, ac, sunroof, stereo cass., 34k mi., gar., immac., $10,800. Ext. 4546.

89 FORD FESTIVA - red, a/t, 50k mi., am/fm radio, excel. on gas, $2,500. 588-7046, leave message.

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

88 FORD CROWN VICTORIA - white, full power, excel. cond., price neg. 369-5878.

87 TAURUS L WAGON - 3.0 V-6, 70k mi., orig. owner, gar., clean, $3,650. Joe, Ext. 5131.

86 DODGE ARIES - 5-spd., m/t, excel. cond., $1,300 or best offer. Lie Ping, Ext. 3867.

86 MAZDA B2000 LX PICKUP - 5-spd., am/fm, 90k mi., excel. running cond., asking $2,200. Rob, 727-7404 after 5 p.m.

85 ESCORT - high mi., good cond., $650. Tony, 286-9426.

85 JEEP CJ7 - new motor, 36k/3 yr. warr., 2 tops, Benzi box, a/t, must sell, $5,300. 744-7549 after 3:30.

85 TOYOTA COROLLA - 4-dr., a/t, ac, 4wd, radio/cass., reliable, $2,200. Alastair, Ext. 5334.

84 OLDS CUTLASS CIERA - ac, p/b, p/s, white, blue velour int., reliable, asking $500, needs some work, 100k mi., Phil, 286-1348.

84 VW VAN - 130k mi., new tires, good trans., m/t, ac, seats 7, $2,000 or best offer. Chu, Ext. 2389.

84 VOLVO WAGON - 6-cyl., diesel, m/t, 10k, mech. mint., $5,200 neg.; '82 Ford Van E250, 8-cyl., p/s, p/b, 35k mi., mech. sound, $2,900. Tony, 281-2513.

82 MAZDA GLC - h/b, a/t, am/fm stereo, runs well, $1,100 neg. Ajit, 331-9849.

81 BMW 320i - sunroof, new Pirrellis, Benzi box, Pile speakers, new struts, clutch, & battery, tight engine, $2,000. George, Ext. 5288.

81 CUTLASS OLDS - many new parts, body excel., V-6, asking $1,000 neg. Jim, Ext. 5439.

81 GRAND PRIX - V-6, a/t, p/s, p/b, ac, v.g. cond., $650. Ext. 3147.

78 TOYOTA CELICA - 5-spd., ac, am/fm cass., brakes, new clutch, good tires, insp., runs well, rusty, $400 neg. Julia, Ext. 1051.

78 CORVETTE - Silver Anniversary Ed., T-top, 4-spd., 350 motor, loaded. Ext. 2309.

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

70 CHEVY CHEVELLE - needs some work, many extra parts, best offer. Lou, Ext. 2980.

70 CHRYSLER NEWPORT - 360, 4-dr., p/s, p/b, ac, 100k mi., spare tires & parts, orig. owner, excel. cond., $1,200 neg. Joe, Ext. 4826 or 821-3762.

64 VW BEETLE - convertible, needs top & restoration, $800. 878-2702.

PARTS - '70 Camaro, hood, drs., fender, rear lights, rear bumper; '60 Lincoln Mark V, rear end, drs., hood, dashboard, eng., more. 735-6127, leave message.

TIRE -165R/15, new on Honda rim, $25. Joe, Ext. 4826 or 821-3762.

TIRES - good, cheap, used, various sizes. Al, Ext. 4986 or 727-6155.

TIRES - 4, Goodyear GLS, steel-belted radials, 165-70x13, like new, 1k mi., $80. Don, Ext. 2943.

Boats & Marine Supplies

19' DYNAGLASS - fg, center console, self-bailing deck, great for fishing, skiing, clamming, w/trailer, asking $1,000. 563-6680.

17' CANOES - aluminum, used, great shape, w/2 life jackets, $275. 286-1966.

OUTBOARD - 50-h.p. Yamaha, 1984, power tilt, on engine VRO tank, spare propeller, good cond., controls incl., $750. Bill, Ext. 7136.

OUTBOARD - 65-h.p. Johnson, 1975, good for parts only, best offer. 563-6680.

Furnishings & Appliances

BED - Craftmatic, 2 twin w/vibrator, like new, adjustable controls, $3,300 new, now $1,500. 289-1271.

BED - new, queen-size, $200; dryer, $50; coffee table, $50; recliner, $150. Chu, Ext. 3809.

BED - twin, almost new, $90; carpet, 6'x9', good cond., $15; corner cabinet, $10. Ext. 5534 or 345-2686 after 6 p.m.

BED - twin, solid oak, for child/youth, w/headboard, 2 drawers, hardly used, $200. 821-6856.

BEDROOM SET - boy's desk, bed, 2 chests, $75. John, Ext. 5100.

BEDROOM SET - queen water bed, triple dresser, triple mirror, men's dresser, dark pine, good cond., $500/all, parts neg. F. Kuehl, Ext. 7947.

COUCH - Castro convertible, good cond., $75; dehumidifier, $30. 473-5376.

DESK - student's, white lacquer, from Workbench, excel., $60; electric clothes dryer, Sears, still works, $40. Paul, Ext. 7644 or 929-4295 eves.

DRESSER - girl's, white wood; white headboard & footboard; child's 2-drawer beech desk w/chair. 744-5448 after 5 p.m.

DINING ROOM TABLE - w/4 chairs, country style; rocking armchair; Sega Mega, Atari cartridges. 423-9750.

DISHES - Heartland, service for 8, extras, $50 firm. Jerry, Ext. 7427 or 475-5591.

RANGE/OVEN - G.E. 30", electric, harvest gold, 15 yrs. old, excel. $150; Nutone range exhaust hood, 2-spd., light, $40. Mike, Ext. 7941.

SOFA - sleeper, w/matching love seat, charcoal gray, excel. cond., $350. 874-4784.

WALL UNIT - used for holding TV, stereo, books, etc., $300. Chu, Ext. 3809.

Tools, House & Garden

GARAGE DOOR - 2-dr., approx. 16'x7', outside T-111, inside lauan insulated wood dr. $300. Ext. 3992 or 331-1003.

GENERATOR - 5,000W, 220-110V, elec. start, used once, $450. 329-1277 after 6 p.m.

LAWN MOWER - 22", used 1 season, $75. 473-5376.

SNOW BLOWER - Ariens, 24", 8-h.p., 2-stage elec. start, chains, excel. $450. 329-1277.

STOVE - coal, Surdiac, Southport model, approx. 30,000 Btu, black, porcelain finish, excel. cond., you pick up. Joe, Ext. 5139.

STOVE - coal or wood, pipes incl., Chappee, best offer. Jim C., Ext. 4150.

TABLE SAW - Alltrade, portable, 10", 1¾-h.p., 10 A, $75; Ingersoll-Rand air compressor, 1½-h.p., asking $800. Rob, 727-7404 after 5 p.m.

Sports, Hobbies & Pets

BIKE - boy's, 20", Haro, 1 yr. old, excel. cond., $80. Ext. 3705 or 689-1877.

DALMATION - male, 1 yr. old w/papers, needs good home, $150, full pedigree. 924-8558.

EXERCISE BIKE - Air Cruiser by DP-Fit for Life, $300 new, asking $145. 567-2038.

EXERCISE EQUIPMENT - X-C skier/rower by Lifestyler, $150 new, now $60, almost new. Mike, Ext. 7941.

FISH TANK - saltwater, complete setup, $150. Jim C., Ext. 4150.

ORGAN - Yamaha E-30, full-pedal, very good cond., $2,000 neg. Dorothy, 744-9027.

SNOWBOARD BOOTS - Airwalk, size 7, used 2 times, like new, $100. Anthony, Ext. 2138.

STEP MACHINE - Body Tech by Auita, excel. cond., w/radio, walkman, orig. $200, ask. $100. 563-6680.

TRAINS - HO w/layout, $30. John, Ext. 5100.

TRAMPOLINE - 16' dia., new, extra tarp cover, orig. $300, must sell, $200. Dick, Ext. 4640.

WEIGHT BENCH - Weider, w/butterfly attachment, like new, asking $50. 563-6680.

Audio, Video & Computers

COMPUTER - Commodore 64, 1541 floppy drive, joystick, software, manuals, in orig. boxes, $100. Jim C. Ext. 4150.

SPEAKERS - Dahlquist, 5-way dynamic-phased array speaker system, 37Hz-27kHz frequency response, handle up to 200W, ask. $350. Ext. 7496.

MIXING BOARD - Teac, 6-channel; preamps; Fender precision bass, best offer. Jim C., Ext. 4150.

SLIDE PROJECTOR - Airequipt w/30 film cartridges, will hold 1,848 slides, $30. 924-5192.

VIDEO CAMERA - G.E., v.g. cond., $275; cassette & record player w/2 speakers, hardly used, $30. Drew, Ext. 3849.

Miscellaneous

BLAZER - women's, scarlet wool, size 14, worn once, $35. Culwick, Ext. 4930.

CHRISTMAS TREE - artificial Scotch pine w/stand, directions, $15. 281-7844 eves.

ENGAGEMENT RING - ½ carat, diamond, high quality, S-shaped gold band, asking $900. 698-3918.

FABRICS - African prints, many different colors and different prints. Donna, Ext. 4430.

GIFT CERTIFICATE - Fortunoff, $100 for $90. Jane, 874-4049.

HUMMEL PLATES - '78-'79, in original boxes, $125 ea., both for $225. Joe, Ext. 2898.

KIMONO - silk, new, Takashimaya, outstandingly beautiful, w/accessories, make offer. Jan, Ext. 1239.

MOBILE - musical, mint cond. for infant to 3 yrs. old. Ext. 5534 or 345-2686.

RING - women's, 14k gold, w/small diamonds, Free Style, size 8, $35. Linda, Ext. 7187.

SLEIGH - antique, 1-horse, black, red tufted seat, $700. Pat, Ext. 2452.

SMOKED TURKEYS - 12 lb., $23; smoked ducks, 5 lbs., $15; geese, lamb and fish avail. Vin, 821-6780 after 6 p.m.

TICKETS - Billy Joel, Jan. 2, $35 ea. Cliff, 696-4037.

TYPEWRITER - electronic, portable w/memory, automatic correction zone, up to 65 characters, 55 keys, excel. cond., $65. Ext. 7496.

Free

DOG - pedigreed Golden Lab, 1-yr.-old, male, neutered. Betty, Ext. 2937

OIL TANK - 275 gal., you pick up. James, Ext. 4150.

Car Pools

BOHEMIA-E. ISLIP-OAKDALE-SAYVILLE - need 1 more driver. Frank, Ext. 2314.

PITTSBURGH/STATE COLLEGE, PA - weekends and holidays, share expenses/driving. Ext. 3698.

Wanted

BOAT - 21' center console, Mako type, nothing pretty, to be used for clamming. 563-6680.

JUNK - cars, trucks, machinery, alum. boats, will remove. Rich, Ext. 4986 or 589-9103.

MARY KAY REP - Mickey, Ext. 7908.

RECORD PLAYER - and bird cages for residences for handicapped and retarded adults, urgently needed. John, Ext. 4203.

SAXOPHONE - preferably alto, other offers also welcome. Hannes, Ext. 4832 or 821-2161 eves.

TABLE - 42-28 in. dia., butcher block or oak on metal pedestal. John, Ext. 7671.

TRUMPET - for student, reasonably priced. Ext. 3751 or 589-5490.

In Appreciation

I would like to express my thanks and appreciation to all my friends and coworkers in the SEP Division for your kind thoughts and generosity following the recent loss of my father. — George Hughes

Our sincere thanks and appreciation to everyone at the Lab for your love and support during the very difficult time following the tragic event that took the life of our beloved daughter Mili.

— Shanti and Mano Subudhi