

The Benefits Package

In answer to a number of Tune-Ins concerning the lack of a dental plan in the Laboratory's benefit program, Personnel Manager Joseph Washburne has prepared the following review of benefits provided to employees in an attempt to put the lack of such a plan in perspective:

The Laboratory's intent is to provide an insurance and benefit program that gives adequate protection against major expenses for its employees at a reasonable cost; the protection provided will be equal to or better than the average provided by other similar institutions for their employees.

This policy is monitored through continuous surveys of the benefits provided by industrial companies and universities. With these comparisons in mind, regular periodic reviews of the benefit plans are made by Personnel, the Laboratory Director and the AUI Trustees.

Since Laboratory benefit costs as well as salaries are among the other operating costs that are supported from the same budget, any proposed changes necessitate an evaluation of all items competing for the same funds in order to establish a priority of spending.

In 1977, the cost to the Laboratory for benefits was approximately \$6,200 per employee or nearly \$19,000,000. In Fiscal Year 1979, we anticipate the continuation of our present benefits will result in a cost increase to the Laboratory of nearly \$1,000,000, due to the increase in hospital and other medical charges. A listing of some of the present Laboratory fringe benefits that are paid for in full or in large part by the Laboratory would be in order.

Basic Life Insurance

Basic life insurance coverage is provided in an annual amount equal to the nearest multiple of \$2,500 that exceeds your base annual salary. It is provided at no cost to the employee.

Supplemental Life Insurance I And II

In addition to the basic life insurance coverage, two supplemental options are also available. Supplemental I can be purchased at the employee's option in an amount equal to the basic life insurance. Supplemental II is available in an amount sufficient to make the total group life insurance coverage equal to three times base annual salary, rounded to the nearest \$500. The employee premium for Supplemental life insurance is 35¢ per thousand per

month. AUI pays the difference between the employee premium and the total actual cost.

Long Term Disability Insurance

Long Term Disability insurance provides an employee and the employee's family with protection against complete loss of income during a long period of absence due to a disabling illness or injury. The plan also provides for a continuation of monthly contributions to the employee's retirement plan. Medical and life insurance coverage continue as long as the employee qualifies for Long Term Disability benefits. The employee premium is in an amount equal to one-third of one percent, AUI pays the difference between the employee premium and the total actual cost.

Medical Insurance

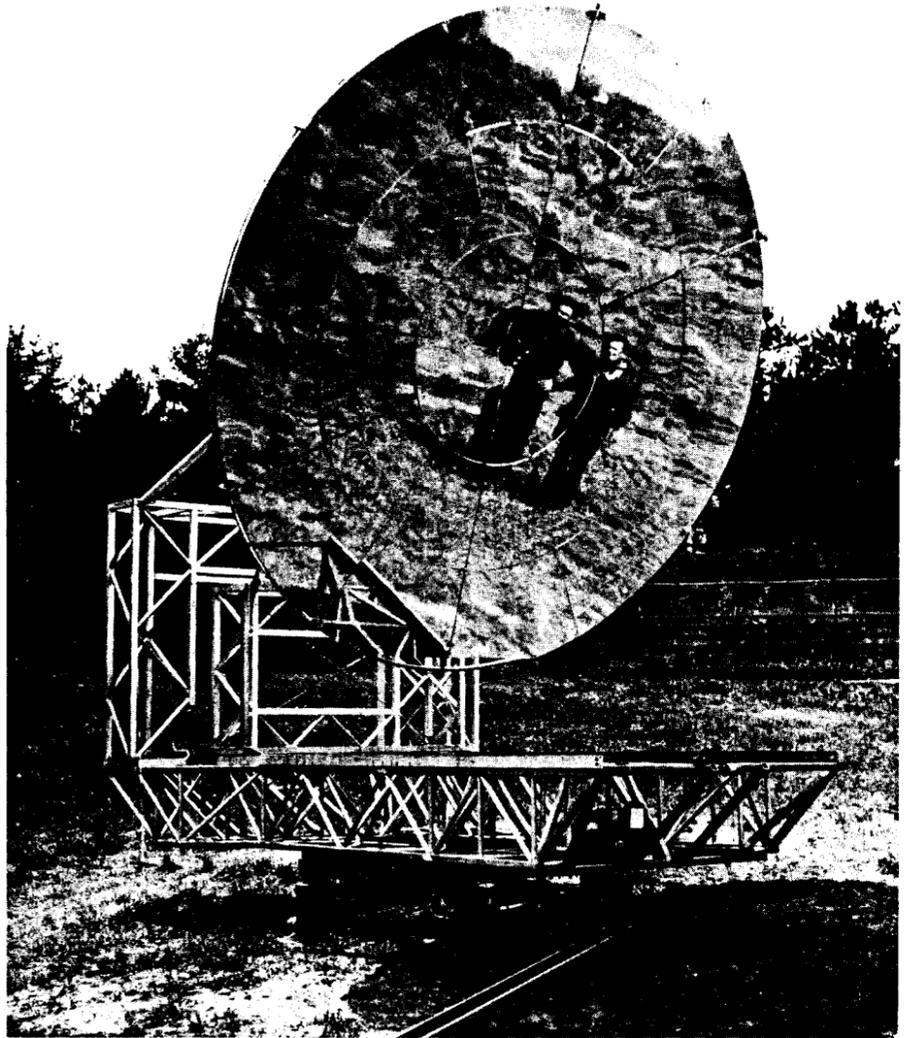
Medical insurance provides hospital coverage for cost of semi-private hospital room and board fully paid for up to 365 days; hospital services and supplies fully paid for up to 365 days; in-hospital doctor visits at \$7 per day up to 31 days; a surgical schedule with a maximum payment of \$1,400; diagnostic x-ray and laboratory tests up to \$250; and major medical expense benefits (all causes per person).

Major medical provides for a \$100 per year deductible per person, with the policy paying 80 percent of covered expenses in the calendar year that exceed \$100. There is a maximum lifetime benefit of \$100,000. This insurance is provided at no cost to Laboratory employees, retirees age 58 and over, and eligible dependents.

Retirement Plan

Your AUI Retirement Plan, unlike most pension plans, gives you immediate vesting of all retirement and survivors' benefits purchased in the employee's name whether paid for by the employee or by AUI. They remain the employees, no matter when or at what age the employees leaves AUI employment.

The plan provides various options, such as a variable annuity option (CREF) and (continued on page 2)



"Reflections in a Golden Eye": Brookhaven's newly developed heliostat. — photo by Rosen

A Multi-Faceted Solar Gem

The sun's energy is there for the taking. But how to take it and use it to supply the world's vast energy needs is one of the urgent problems confronting science. Brookhaven has successfully tackled one area of this research — the development of a heliostat, or, a solar energy concentrator.

The project was instigated to generate steam by means of solar energy so that it would be cost competitive with present day fuel oil. It was specifically designed for the supplementary heating and cooling of small industrial complexes and cluster residential homes in the northeastern United States.

This past weekend, even though the sun was not very cooperative, over 1300 visitors came to see and ask questions about the solar device, which was on public display for the first time.

The two-axis tracking heliostat with 28 individually focused mirrors was produced over the past two years by a small group in the Accelerator Department, working under the direction of Garry Cottingham. Following the sun from the east to west, the solar instrument concentrates and re-directs the sun's energy to a target, in this case, a simple steam generator.

The reflecting efficiency of the spherical plastic mirror is 84%, compared to 92% for that of glass. Glass was rejected as a suitable material because it is both heavy and fragile. Instead, 28 mirror facets made of aluminized polyester film, totalling 16 feet in diameter, have been laminated to a light weight support structure. As a result, costs are considerably reduced and the structure is not cumbersome.

The prototype's reflecting surface has a focal length of 50 feet, but the design can accommodate lengths up to 165 feet. One of the interesting features is the alignment procedure which uses a helium neon laser technique to orient the 28 mirror facets.

Direct sunlight striking one square foot — of the heliostat's 201 square foot surface — will generate approximately 300 Btu's per hour. (Heat is measured in Btu's — British Thermal Units — and one Btu is the amount

of heat needed to raise one pound of water one degree Fahrenheit). Assuming eight hours of sunlight, one heliostat can deliver to the generator about 2000 Btu's per square foot every day.

Another feature of this solar concentrator is that it can be retracted and thus protected in bad weather. Current estimates indicate that it can withstand sustained winds of up to 50 mph. When winds reach beyond that point, the reflector is brought down to lie flat on the mounting. In a real operating situation, this procedure would be automated and the heliostat would shut itself down.

The "weatherability" of both the individual facets and the entire structure is the subject of continuing study and experimentation. The Laboratory has subcontracted for further work on the durability of the reflectors. The structure itself must be able to survive hurricanes when folded down, and the solar group is preparing to test the effect of hail (65 mph winds and one-inch pellets) on the mirror surface.

Another advantage of the small plastic mirrors is that they can be replaced, if damaged, simply by unscrewing the damaged facet and inserting a new one. Cottingham believes that, in the field, they can be replaced without any realignment.

Now that the prototype is operating, Cottingham says that any construction of additional heliostats will be done by industry. Westinghouse is the industrial partner in this venture and they are currently doing an in-depth production cost analysis. Their report is due late this fall.

Should the proposal for a 55-heliostat steam plant be funded at Brookhaven, Westinghouse would be the manufacturing arm. The proposed solar steam plant would be supplemental to the Laboratory's central steam plant. According to an economic analysis prepared by Cottingham, the heliostat plant would save 49,000 gallons of oil annually, which, at present prices, would also mean a savings of \$21,000. The estimated cost of the plant is \$120,000 and (continued on page 2)

Technician Trainees Selected

8-735-78



Andrea Epple and John Skora

— photo by Humphrey

a semester of college with one semester off in which they gain on-the-job experience at the Lab.

BNL's six current technician trainees concur with Peter Paige and their newest colleagues: "the program is great."

—Rosanne Pagano

Of the 35 applicants who expressed interest in BNL's technician trainee program, "many were considered, but two were chosen," said Peter Paige of Personnel. They are health physics technician Andrea Epple and grounds laborer John Skora. The new trainees will participate in the 1978 program which begins with the fall semester at Suffolk County Community College.

"The program is excellent," said Paige, "it permits the Lab to 'grow its own' technicians in areas where they are most needed."

Both John and Andrea have received full appointments which permit them to complete the credits required for an A.A.S. degree. John, who has been a Lab employee since October, is "very happy" to be selected. He will pursue courses to become an electrical technician.

Andrea was first at the Lab in 1975 when she took part in her high school's co-operative education program. She was hired as a full-time employee a year later and is currently working in personnel monitoring in S&EP where she handles the radiation records. She is pleased with the prospects of "going to school and getting ahead." Andrea will take a liberal arts program with an emphasis in science and math in connection with her health physics background.

Technician trainees receive an ideal combination of academic and practical training, said Paige. The trainees alternate

Technical Association Explores Black Roots

New York City was host last week to the 50th Annual Convention of the National Technical Association, whose Golden Anniversary meeting was dedicated to "Black Roots in Technology."

Speakers at the seminars on Thursday and Friday included Otto White of Safety and Environmental Protection, Hattie Carwell, formerly a graduate student at BNL, and Gregory Bagley, Accelerator Department. Invited, but unable to attend, was Nat Greenhouse, who is now in the Marshall Islands on a research project.

Harvey Thomas, Assistant to the Director for Affirmative Action, and Renee Flack, Equal Opportunity Assistant participated in the full program, helped with the Job Fair and manned exhibits from BNL in the main ballroom of the Holiday Inn on 57th St.

John Burdick and Marsha Kipperman of Personnel gave job interviews and career advice during the two-day job fair. Brookhaven brochures, booklets and job listings were distributed throughout the convention.

On Thursday, a busload of technically-oriented youths from the convention came to BNL and toured several facilities as well as the Exhibit Center. Next year's convention will be held in either Pittsburgh or in Chicago.

Summer Rec Program

On-Site Program

Last Friday's special event was "Olympics Day." After two hours of strenuous and exhausting marathon running, jumping in potato sacks, and wheelbarrow races, all the children were awarded prizes with trophies going to the estatic winners.

Coming Events:

This week - Halloween Day

Next Thursday, at 5:30 p.m. - the International Picnic for children and their parents.

Next Friday - Carnival Day

Swimming Pool

Everyone was a winner at the pool last Friday when the annual relay races took place.

Coming Events:

This week - Ping-Pong/Spoon and Cup Races.

Next Monday, at 7:00 p.m. - Race Night for children ages 10 through 16.

Next Friday - Inner Tube Derby

Tennis

Despite threatening rains, instructor Mark Myavec's tennis tournament has been under way this week with many exciting matches. Winners will be announced in next week's *Bulletin*.

Art In Miniature



Put on your spectacles and come to a Lilliputian art show, sponsored by BERA,

now on view in Room B, Berkner Hall. One hundred and seventy-two miniature prints are on display through August 28 and may be seen any weekday from 11:30 a.m. to 1:30 p.m.

Although the prints are executed in many different techniques, they all have one thing in common - the total area of each print does not exceed four square inches. The exhibit is the result of a competition initiated by the Pratt Graphic Center in which 1,878 prints were entered. The winners are on exhibition through the cooperation of the New York State Council on the Arts.

Additional impressions are available for sale at prices ranging from \$5 to \$100, through the Pratt Center. Prospective buyers may obtain a copy of the brochure listing the prints and their prices, at the exhibit.

Benefits

(Cont'd)

the Supplemental Retirement Annuity, under which an employee may set aside supplementary annuity benefits through salary reduction. AUI contributes an amount equal to 10 percent of base pay to each eligible employee's retirement contract.

Travel Accident Insurance

The principal benefit is five times an employee's annual base salary, with a minimum benefit of \$100,000 and a maximum benefit of \$250,000. This coverage is provided at no cost to the employee.

Holidays

The following holidays are observed by all full-time and eligible part-time employees:

New Year's Day
Washington's Birthday
Memorial Day
Independence Day
Labor Day
Veterans' Day
Thanksgiving Day
Day after Thanksgiving
Christmas Day

Two additional holidays to be observed during the year are announced by the Laboratory in December. (In 1978, the additional holidays selected were Monday, July 3 and Tuesday, September 5.) In addition, a half-holiday is observed consisting of the last four hours of regularly scheduled work preceding Christmas Day.

Sick Leave

Sick leave is granted at a rate of up to 18 days per year full pay with a maximum accumulation of 108 days to provide continuity of income during absences due to the employee's illness or injury.

In addition to these basic fringe benefits, more properly called supplemental compensation, there are several less significant

ones, such as Death Leave, Jury Duty, Military Leave, and Doctor Visits.

A major benefit of a different kind is:

Tuition Refund

A regular full-time or eligible part-time employee who successfully completes a formal course of study may be reimbursed for up to 100 percent of the tuition fee paid.

Comparisons

A comparison of the cost of all Laboratory benefits, including the statutory benefits such as Workmen's Compensation, Social Security and Unemployment Insurance, is made annually by the Department of Energy of the ten DOE laboratories. The highest cost, as a percentage of gross payroll, was 32.5 percent and the lowest was 23.8 percent. The cost to BNL in 1977 for all benefits was 29.6 percent of gross payroll, placing us in the top four of this group.

Our own surveys also indicate that most other companies that offer dental plans to their employees do not have a total benefit package as generous as BNL.

Major Improvements

Improvements are made continually to the BNL package. The significant changes made in the past few years are:

The annual out-of-pocket costs for major medical expenses were limited to protect employees from major medical expense. After incurring covered expenses (excluding deductibles) of \$900, the plan provides for 100 percent of covered expenses for the balance of the calendar year. The lifetime maximum major medical benefit was increased from \$50,000 to \$100,000.

Maternity benefits were revised to provide hospital full room and board, and obstetrical benefits were increased to \$350.

Rest assured the benefits and costs of each improvement have been carefully compared to other possible benefits such as a dental plan, and a considered choice has been made by knowledgeable persons.

Library Expands Search Service

Two major bibliographic data bases have recently been added to the Research Library search service.

On-line library subfiles at SLAC include 28,000 reports and preprints received in the SLAC library since January 1974; a comprehensive file of high energy physics journals, articles, books, tech reports, preprints, and conference proceedings from November 1975 expanding at the rate of 1000 items annually; 1000+ addresses of HEP related institutions; listings of past and future HEP conferences and proceedings. Known as SPIRES 3, this file can be searched by author, title, report number and topic.

The second service contains larger files and is more comprehensive in coverage. Bibliographic Retrieval Services, Inc. offers access to more than 9 million bibliographic citations in the subject areas of medicine, biology, chemistry, agriculture, physics, engineering, computer science and business management.

Two particular advantages of this service are that the MEDLARS file will be available from the Research Library for the first time, and that hourly connect rates are lower than rates with other services because of a special agreement between Brookhaven, the Library of Congress and Bibliographic Retrieval Services, Inc.

Madeline Windsor, the Research Library's intrepid searcher will assist users in the use of these new files.

Three Shelves Full

Surplus books on all scientific subjects are available for the taking in the Acquisition and Cataloging Room in the Research Library, Bldg. 477.

VAUDEVILLE AT BNL



When the curtain goes up Saturday, August 12 at 8:30 p.m., Lab employees will drop their daily identities to take up roles such as Little Lena the Butcher's Wife (Rita Straub) or Bow Wow the Clown (Frank Fridrich). With other members of the Lab Theatre Group, Lena and Bow Wow will perform in "The Best of Vaudeville, or Who Threw the Overalls in Mrs. Murphy's Chowder," staged in a cabaret setting at Brookhaven Center. Tickets for this "one performance only" presentation may be purchased at the door for \$2.



—photos by Humphrey

Heliostat

(Cont'd)

would pay for itself in about six years from the fuel cost savings.

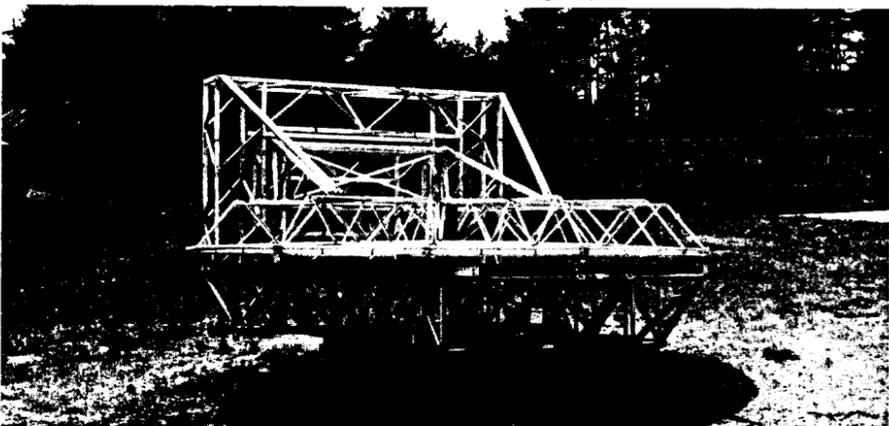
The solar group has determined that, to be effective, 55 heliostats with one 50-ft. power tower (which holds the boiler) is the limit for one field. Cottingham says that this energy supplement concept should not try to supply more than 25% of the load. Beyond the 25% figure, storage is necessary and the economic advantage is lost.

Although the Brookhaven project is similar to that being pursued under DOE's Barstow Project, they address different goals. The Barstow Project is concerned with the generation of electric power, while

the uniqueness of Brookhaven's system lies in the direct use of the thermal energy collected by the heliostats. It can be put into immediate use and is cost effective with today's competing energy prices.

Although Cottingham has been responsible for bringing the project to completion, he cites the late G. Kenneth Green "as certainly my partner in getting this started in 1974." Others who have been principally involved in the development of the heliostat are Peter Montemurro, physics associate; Charlie Schmidt, mechanical engineer; and Ed McKenna, foreman.

The research has been supported by DOE's Energy Technology and by the New York Energy Research and Development Agency.



And at rest: the heliostat folds to its base to protect the mirrors from inclement weather.

—photo by Rosen

Tati Film To Be Shown

Le Cercle Français de BNL will sponsor a showing of the film "Playtime," written, produced, and directed by Jacques Tati, and starring none other than Jacques Tati. The film will be screened at 8 p.m. on Wednesday, August 23, in Berkner Hall. Members of the BNL community and their friends are cordially invited to attend. Those who are not members of *The French Group* will be asked for a donation of \$1.50 (75 cents for students) to help pay for the film rental and for refreshments to be served after the performance.

If you've seen any of the earlier Monsieur Hulot movies ("Monsieur Hulot's Holiday," "My Uncle," or "Traffic"), you'll welcome the opportunity to renew your acquaintance with this delightfully droll character. If you haven't seen him before, don't miss this chance.

In "Playtime," M. Hulot, in his characteristically absent-minded way, wanders through contemporary Paris in which nothing seems to work quite as it should. The routine and ordinary world seen through his eyes becomes absurd to the point of surrealism. Tati's film style reminds one of the early silent films, with one sight gag piled upon another to produce a crescendo of laughter. Beneath the surface, however, there is a framework based on keen observation and pointed social comment. "Playtime" was rated one of the Ten Best Films of the Year (1973) by the *New York Times*.

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8-457-78

BROOKHAVEN BULLETIN

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Cafeteria Menu

Week Ending August 18, 1978

Monday, August 14	
Tomato bouillon	(cup) .30
	(bowl) .40
Franks and beans	1.10
Roast sirloin of beef and 1 veg.	1.40
Hot Deli - Pastrami	(on bread) 1.15
	(on roll) 1.25
Tuesday, August 15	
Minestrone soup	(cup) .30
	(bowl) .40
Homemade lasagne and 1 veg.	1.35
Chopped steak and 1 veg.	1.15
Hot Deli - Knockwurst	(on bread) 1.15
	(on roll) 1.25
Wednesday, August 16	
Split pea soup	(cup) .30
	(bowl) .40
Short ribs of beef and 1 veg.	1.40
Fried rice and pork with Chinese noodles	1.30
Hot Deli - Italian sausage & pepper hero	1.25
Thursday, August 17	
Puree of Mongol	(cup) .30
	(bowl) .40
Chicken cacciatore on noodles	1.20
Beef liver with onions and 1 veg.	1.15
Hot Deli - Barbequed beef	(on bread) 1.15
	(on roll) 1.25
Friday, August 18	
Clam & celery soup	(cup) .40
	(bowl) .50
Pot roast and 1 veg.	1.40
Seafood cakes and spaghetti	1.10
Hot Deli - Smoked tongue	(on bread) 1.15
	(on roll) 1.25

Arrivals & Departures

Arrivals

Clement Auguste.....	Accelerator
John E. Carlson.....	Accelerator
Kristin D. Chung.....	Biology
Dennis Hall.....	Contr. & Proc.
Ronald J. Orsini.....	Central Shops
Neil A. Wade.....	Accelerator

Departures

Atma B. Gupta.....	Chemistry
Regina Hakoopian.....	Energy & Env.
Tam Van Nguyen.....	Ph. & Gr. Arts
Harold J. Wiesmann.....	Energy & Env.

Softball

LEAGUE I

Phoubars 11 - Dirty Sox 5
Six Pax 7 - Ravens 5

LEAGUE II

Cardinals 10, 9 - DEE 6, 8
Sweathogs 18 - Cardinals 9
Radicals 10 - Nuke Powers 8
Strange Encounters 19 - Charlie Browns 12
NSLS 12 - DEE 10

MIXED LEAGUE

Thrids 9 - Who Cares 6
Diamonds 23 - Trouble II 7
Who's On First 8 - Oh Kays 7
Balls & Strikes 15 - Turkeys 1

MIXED LEAGUE

Makeup Games
Thrids 14 - Who Cares 4
Oh Kays 12 - Who's On First 6
Balls & Strikes 7 - Turkeys 1

Selected Reading

Nature 274, July 20, 1978
The nuclear debate is about values. D. Pearce. 200
US and China agree to expand science ties. D. Dickson. 203
Oceans 11, July-August 1978
What is a Sea Bird? N. Rosa. 22-24+



The alarm is sounded



The EMT's skillfully and speedily assess the injuries

In The Event Of An Emergency

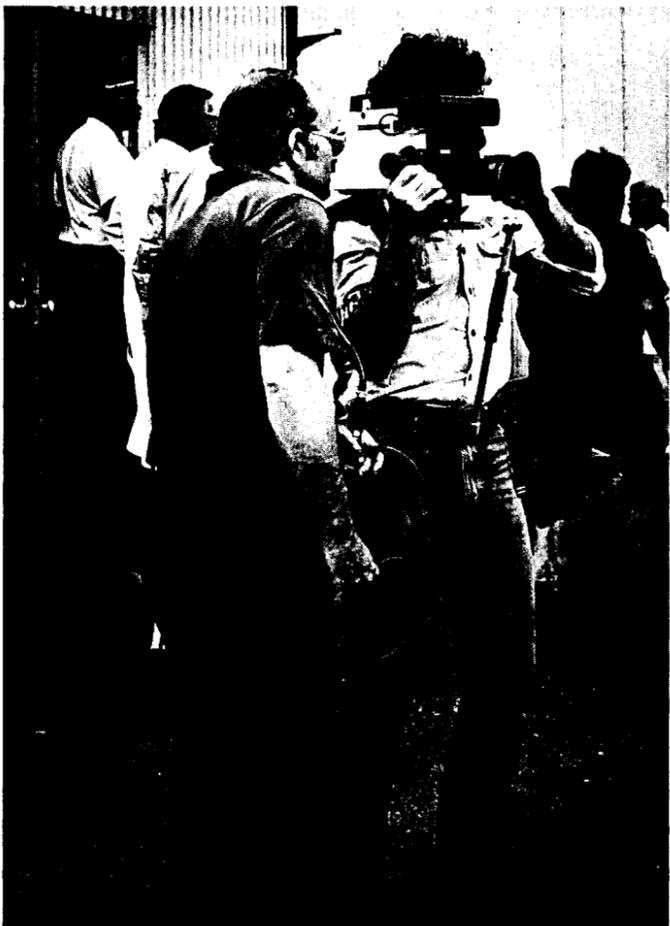
In its continuing series of emergency drills, the Laboratory staged an accident last Friday in Building 919B, the Bubble Chamber Works Area. This "accident" involved the release of a small amount of radiation when a number of drums were inadvertently dropped on a group of employees. In this simulation, there was one fatality and nine injuries, most of them serious. Although there was only one case of radiation contamination, which was quickly

controlled, fractures, abdominal and chest injuries, a severed ear and mouth trauma were reported.

The exercise was held to see how well the emergency procedures worked, and how the various groups coordinated, in taking care of a large number of injured people. The Emergency Medical Technicians of the Fire Department, the police, health physicists, the entire clinical staff of the Medical Department, photographers

and public relations staff were all active participants. Because such a situation would require outside help, ambulances were summoned, and responded, from Yaphank, Ridge, Mastic and Suffolk County.

In the afternoon, after the drill had run its course, a videotape of the whole operation was shown, and a critical discussion held as to how procedures could be improved - just in case.



Photographers record the event



Caring for an employee who was not badly injured, but vocal
—photos by Rosen

NYIT Registration Notes

The New York Institute of Technology has announced its Fall 1978 - Cycle A course offerings. Prospective students are reminded that orientation will be given between noon and 1 p.m. on Tuesday, August 22 in Berkner Hall. Class registration and book sale are scheduled for Thursday, August 24 from noon until 3 p.m., also in Berkner.

The Fall schedule is:

Course number	Title	Credit	Cost	Day	Start	End	Time
2521	World History I	3	\$180	Wed	9/6	11/15	5:15-7:45
3902	Collective Bargaining & Labor Relations	3	\$180	Thu	9/7	11/9	5:15-7:45
3531	Business Law I	3	\$180	Mon	9/11	11/20	5:15-7:45
3011	Algebra & Trigonometry	3	\$225	Tues	9/12	1/16	5:15-7:45
1042	Business Writing	3	\$180	Tues	9/12	12/5	5:15-7:45

Weekend Tour

The featured mini-tour on Saturday and Sunday will be the Tandem Van de Graaff accelerator facility. Brookhaven is the only place in the world where two Tandem accelerators can be used together to do nuclear experiments. Visitors will see the accelerators and an experimental room. Several active exhibits, including a small, model Van de Graaff, will help visitors understand the physics behind the research.

EXHIBIT CENTER

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

748. SECRETARY - AAS or equivalent. Excellent secretarial skills (including steno). Familiarity with data processing input highly desirable. Excellent chance for advancement. Directors Office.

749. SECRETARY - AAS or equivalent with excellent secretarial skills. Technical typing experience highly desirable. Chemistry Department.

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

750. SENIOR DESIGNER (MECHANICAL-3 Positions) - Demonstrated experience in the design of precision components. Knowledge of fabrication techniques, material selection and elementary strength of materials required. National Synchrotron Light Source.

751. ELECTRICIAN-A - Plant Engineering.

752. DRAFTSMAN - Temporary (until 9/11/78). Working knowledge of Leroy Systems desirable. Photography & Graphic Arts Division.

753. DEVELOPMENT ENGINEER - Requires BSME or equivalent and proficiency in machine design and precision manufacturing processes. A working knowledge of cryogenics is desirable. ISABELLE Project, Accelerator Department.

Autos & Auto Supplies

UTILITY TRAILER - good cond. \$50. Pete, Ext. 3868 or 878-1225.

67 JEEP WAGONEER - 6 cyl, p/s, std, very good mech, good body. \$1150. Al, 732-2249.

69 OLDS DELTA 88 - 455 engine, very good cond, must be seen. \$600. 924-6302.

66 VW - rebuilt eng and trans, runs excel, new clutch, needs front window. \$350. 588-0424.

TIRES - (2) Uniroyals, HR-78-15, w/w, make excel spares. \$10 ea. 475-8658 after 6:30.

73 YAMAHA MOTORCYCLE - 250 RD 8,000 mi, like new. \$500. Ext. 4725 or 473-8716.

68 KAWASAKI - 175 cc, old but runs well. \$150. Gene, Ext. 3807 or 744-7164.

NEW & USED TIRES - rims, repairs, MAG wheel service, reg, radial, Dunlop-Firestone, free instal, balance avail. Fred Usack, Ext. 4597 lunchtime or 475-4935 eves.

TRUCK TIRES - Sears (4) 7.50x16 LT w/16" split rims. \$25 ea. Tom, Ext. 2959.

72 PONTIAC GRANVILLE - 4 dr/HT, full power w/ trailer hitch, good mech. \$695 will dicker. Ext. 2599 or 821-0599.

57 CHEVROLET - Belaire coupe, 6 cyl, auto, excel cond. Must see. \$2200. 363-6121 after 6.

72 SAAB 99 - auto trans, 62,000 miles, fine cond. Lance or Joe, 286-0139.

71 CAPRI'S (2) - 25 mpg, excel running cond. One @ \$800, one @ \$600. 653-5989.

68 CHEVROLET BEL AIRE - Runs, needs battery. \$100. 585-4741.

60 FORD FALCON - 6 cyl, 7 good tires, year-old valve job and ball joints, recent carb and starter. Poor body. \$75 firm. 281-0360.

60 CADILLAC - 4 dr hdt, 58,000 mi. Excel cond. \$975. 588-4733.

69 VOLVO - 2 dr, stan, med blue, good cond. \$800. Chris, 821-9358 after 6.

69 FORD FAIRLANE - 2 dr, just tuned: new starter, brakes, wheel cyl. \$500. K. Yamashita, Ext. 4012 or 3104 after 6.

65 INTERNATIONAL PICKUP - Stan 3 sp trans. Excel running cond. \$400 firm. John, 369-1080.

56 MERCURY - Collector's dream, 4 dr, V-8, auto, p/s, p/b, 49,000 orig mi, good cond. \$600. 286-8119.

68 BUICK SKYLARK - Auto trans, p/s, a/c, 2 dr. Excel second car. \$250. Roy, Ext. 2384 or 878-0074.

75 VOLVO STATION WAGON - Excel cond, am/fm, CB, must sell. Ext. 4042 or 821-0319.

76 PLYMOUTH VOLARE - station wagon V8, Premier, auto trans, p/s, p/b, radio, 60/40 seats, 27,000 mi. \$3500. Ext. 3767 or 744-3744.

71 PLYMOUTH SATELLITE - \$650. Ext. 4375 or 3105.

BRAKE DRUMS - set of 4, resurfaced, fits Dodge and Plymouth 14" wheels. Joe, Ext. 2251.

74 VEGA STATION WAGON - green Kambrack. Luggage rack, low mileage. Ziebarted new, no rust. \$1200. 286-0103.

71 PINTO - 2 dr, 4 sp, 4 new tires, good gas mileage. Must sell. \$525. Ext. 2534 or 727-1346.

70 VW BUG - 50,000 mi, good radials, clean, runs well. \$650. 929-4940 after 6.

67 MUSTANG - ht, red, good cond, needs some work. \$350. Colin Stewart, Ext. 4154 or 286-9616 after 6.

76 FORD PICK-UP - Super-cab, camper special, 15,000 mi, auto trans, ps/pb, insulated cap, Reese hitch, extras. \$5100. Kurt, Ext. 4698 or 744-2097 eves.

66 OPEL - station wagon. Good running condition. Ext. 3030.

69 MERCURY MARQUIS - Auto trans, ps/pb, ac, radio, clean, runs well. \$650. 928-9403 after 6.

70 PLYMOUTH DUSTER - 6 cyl, auto trans. \$450. Walter Schlichteroll, Ext. 3284 or 924-6172 after 6.

67 VOLVO - Classic P-1800S, 72 engine, maroon, good cond. \$1600. John, 472-1735 after 6.

73 DATSUN - 1200 cpe, am/fm stereo, snows, make offer. Sam, Ext. 2675.

Boats & Marine Supplies

CORRECT CRAFT - 18' fiberglass, 225 CI Chrysler marine inboard. New navy top. Excel cond. \$2475. Scott, Ext. 4364 or 878-1777.

74 C & C SAILBOAT - 25' yellow w/6 Ulmer sails, 9.9 HP Evinrude, 6 Merriman winches. 589-9206. eves.

15' SCOTCHCRAFT - and trailer. \$100. Bob, Ext. 3309.

71 PACEMAKER - 26' skiff, all fiberglass, new 77 engine, 270 HP Chevrolet, fresh water cooled. Dinos, Ext. 4666.

16' FIBERGLASS - 55 HP Mercury w/trailer. \$500. In water, will demonstrate. Ext. 4725 or 473-8716.

21' BLUE FIN - by Arrowglass, 74. 115 HP Mercury outboard, center console, galvanized trailer w/ power winch. Dominick, Ext. 3954.

18' LAPSTRAKE RUNABOUT - Hardtop, new trailer. Excel cond. \$400. Ext. 3063 or 744-4066 after 6 and weekends.

16' FIBERGLASS - 35 HP Johnson electric start, tilt trailer, in water. \$650. 286-0795.

Miscellaneous

SEARS - hair dryer, \$5; record player w/2 speakers, \$12; girl's bicycle, \$12. Ext. 3180.

WINDOWS (3) - double hung, doublepane insulated, white baked alum, w/screens, 70 3/4"x48" at \$60 ea; (1) 70 3/4"x64 1/4" for \$100. (1) Anderson perma narro-line picture sash 5'8"x4'6" new, unpainted. \$140. 331-2779.

BENCH LATHE - Screw cutting logan bench model w/asst lathe tools. \$150 firm. Morris Laffer, 273-3795.

YARD SALE - Household, some furniture, some baby items. Aug 12 & 13, 10-4. 31 Miller Ave, Shoreham. 744-7493.

2 RUGS - Red 9'x12' w/pad, \$50; rust 12'x15' w/pad, \$75. Call 475-5150.

YARD SALE - Sat, Aug 12, 9-5, 49 King Road, Rocky Point.

GARAGE SALE - Aug 12 & 13, Yaphank. Second house north of park at Yaphank Ave and Sills Rd. Sofas, \$20 ea; pewter, lamps, upholstered chairs, \$10 each, household collectibles. Weather permitting. Ext. 3561.

77 YAMAHA - 125 cc YZD MotoCross, excel running cond. Must sell. \$600. 653-5989.

70 SUZUKI 500 - 2 stroke, excel cond, 6000 mi, rebuilt eng. Asking \$600. 298-4263 after 6.

FRONT CAR SEAT - blue vinyl, bench-type 56" w. \$7. Pat, Ext. 4519.

BICYCLE - Schwinn 3 spd, 20" Spyder. Good cond. \$25. R. Hildenbrand, Ext. 3273.

CANNING JARS - w/glass tops. Quarts. Ext. 2926.

PORTACRIB - \$10. 744-3744.

HUNTING BOW - Bear Kodiak Magnum, 50 lb pull, RH with quiver, bowcover, extra bowstrings. \$40. Stan, Ext. 3284, 286-1062 after 5:30.

ZENITH COLOR TV - 19" very good cond. \$95. Ext. 4375 or 3105.

BICYCLE - Mens 10 spd Vista touring. \$55. 751-8158.

CB BASE - Courier Centurion 400. 1 mo old \$325; Midland 898B mint, \$100. 929-4940 after 6.

BIRCH CABINETS - top and bottom w/counter top, \$250, excel cond; 1 single porcelain sink, \$15; 1 up-right radiator, 44" long, \$35; 1 kitchen table w/leaf, \$15. Ext. 3312 or 878-2591.

TENT - 9'x9' umbrella, \$25; bicycle, 20" Ross, \$30; pool table 2 1/2'x4 1/2', \$20; rocking horse chair, \$5; bathinette \$10; toys, clothing, etc. Palais, Ext. 2907 or 698-0576.

AM/FM STEREO - console, Garrard turntable, 2 speakers 85 d, good mixer 9 d. Ext. 3030.

ORBITAL SANDER - Sear's best (Craftsman), 1/2 HP w/dust pick up. Like new, \$50; 20 lb mushroom anchor, \$10. Scott, Ext. 4364 or 878-1777.

DISHWASHER - gold convertible, Hotpoint w/maple wood top. \$55. J. Pontieri, 475-4286 after 5.

13" RIM - one for Chev Vega with very good tire. \$15. 331-2779.

AIR CONDITIONER - 10,000 BTU and 5,800 BTU, both for \$50. Bob, Ext. 4405 or 751-6152.

AIR CONDITIONER - Sears Coldspot, 18,000 BTU, 230 V. G. Price, Ext. 3336 or 472-1419.

73 COLEMAN - pop up camper, Brandywine II Hard-top, sleeps 7, heater, ice box, stove, sink, curtains, awning, converter, excel cond. \$1550. 821-0695.

EARL GREY TEA - for discriminating tea drinkers, last few 1 lb boites. \$4 ea. Rino, Ext. 2012.

FIREPLACE SCREEN - brass trim, draw screen, 48" w x 30" h, \$15; 2 panel door, 2'x6'8", \$5. Pat, Ext. 4519.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue.

DINING RM SET - Danish modern. Table, 2 leaves, 4 chairs, buffet, china closet w/ beveled glass doors. \$395. Ext. 4532.

YARD SALE - Aug 25 & 26, 10-4, 101 Jennings Ave, Patchogue, Misc, collectibles.

76 HONDA ST-90 - 3000 mi, 102 mpg, excel cond, auto clutch. \$425. 744-5777 anytime.

CAMPER - 10' for 3/4 ton pickup. Sleeps 6, stove, sink, bathroom, heater, etc. \$1200. 588-4759.

REFRIGERATOR - GE, 2 dr, white, good cond. Best offer. 567-9452.

TABLE - 48" round fruitwood, 2 leaves, \$50; kitchen set, table & 2 chairs, \$35. Pete, Ext. 3868 or 878-1225.

BOOK SHELVES - (6) European style, sliding glass door, dark brown, brand new, 40x125x9. \$400 for 6 or \$75 ea. Arkady, Ext. 3007.

BED - Girl's 3/4 Hollywood, box spring and mattress, attractive head board, good cond. \$60. 924-8542.

REFRIGERATOR - Frigidaire, 17 cu ft, old but works. \$50. Ext. 4772 or 473-8716.

BOY'S BICYCLE - 20" high riser, banana seat, chrome fenders, excel cond. \$25. Ron, Ext. 4752.

BEDROOM SET - Contemporary, complete (twin beds) including mattresses, 2 yrs old, in excel cond. \$200. Ext. 3354.

DOOR - 2 panel, 2'x6'8", excel cond. \$5. Pat, Ext. 4519.

SHOES - Women's black pump 2 1/2" heel, only worn once, size 7M. \$12. Ext. 2348 or 727-6539 after 6.

HAMSTER CAGE - w/tunnels, exercise wheel and play house, like new, \$7; Melnor traveling sprinkler, \$8; child's chifferobe, needs refinishing, \$5; child's table and 2 chairs. \$5. 286-3906.

PICTURE WINDOW - 6'wx4'h. \$30. Frank, Ext. 2957.

FREEZER - 15 cu ft GE frost free, used 1 season, excel cond. \$200. 363-6121 after 6.

FREE - lovable, medium sized, spayed female dog, 4 yrs old, part collie, housebroken, well mannered, loves children and cats. 286-0369.

FREE - perfect house cat, 2 yrs, affectionate, mostly black female part Persian, moving and can't take pets. 286-0369.

BABY ITEMS - playpen, \$10; portable chrome high chair, \$10; both like new. Laffer, Ext. 3354.

BOTTLE GAS STOVE - 30" Caloric, black w/chrome trim, 4 burner w/broiler, good cond. \$65. J. Pontieri, 475-1545.

Real Estate

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

For Sale

SETAUKET - 4 bedrm house, nice location, 1.3 acres. \$57,500. 751-3431 evenings.

HEAD-OF-THE-HARBOR - 1 mile from beach, horse variance, custom farm ranch, 6 bedrms, 5 baths, 3 fireplaces, finished lower level in nightclub decor, 2.48 secluded heavily wooded acres, all appliances, MUST SELL this summer. Present all offers. 584-6058 or 981-1327.

MIDDLE ISLAND - Mother/Daughter, 6 rm ranch w/ newly finished basement, 1-2 bedrm apt, completely carpeted throughout, cyclone fence around 1/4 acre. Quiet, dead end st, mint condition, hold mortgage. \$38,000. Ext. 2413.

BROOKHAVEN HAMLET - 3 bedrm custom ranch on 1 1/2 lux landscaped acres. New 20x20 barn, oversized garage, screened porch, many other features. 286-0246.

MASTIC BEACH - 4 yr old house, 6 rm, full bsmt, fenced. 281-5498.

NORTH PATCHOGUE - 3 bedrm hi-ranch. \$37,000. Ext. 4442 or 289-3399 after 6.

CORAM - townhouse, 3 bedrm, eik, lr/dr, 1 1/2 bath. Clubhouse, swimming pools, tennis. \$27,500 mortgage, take over payments, no money down. 473-7914.

ROCKY POINT - open house, 3 bedrm "Tides" ranch. Reduced to \$43,000. Sat & Sun, Aug 12 & 13, 10-4. Ext. 3063 or 744-4066 after 6 and weekends for directions.

WADING RIVER - 2-3 bedrm cape, beach rights, loft, fireplace, cathedral ceiling, low taxes, mid-30's. 751-0164 or 929-8421.

BAYPORT - 3 bedrm California ranch, 2 baths, lr, w/w carpet, kitchen/dinette, appl, finished basemt, fenced yard, 75x150 lot, garage. \$35,500. 472-3534.

For Rent

BELLPORT - 1 bedrm apt in center of village, close to shops and bay. Rate by arrangement. Available end of Aug. Frank Trotta, 286-3797 or Alan Winter, Ext. 3509.

SHOREHAM - 4 bedrm "Contemporary" Colonial on 3/4 wooded acre, private beach, 10 min to BNL, avail Sept. \$450/mo plus utilities or consider selling for \$75,000. 744-1679.

MT. SINAI - Harbor view, 3 bedrms, 2 1/2 baths, furn, lge 22x22 lr, full dr, eik, all appl, woodburning fp, low util, 1 fam only. Sept 7 to June 7. \$425/mo. Owner 473-0674.

WADING RIVER - Rooms to rent near Wildwood Park, quiet. Maria, 929-4265 after 10:30 p.m., Sat a.m. or Sunday all day.

STRATHMORE RIDGE - 2 bedrm ranch w/w carpet, ac, washer, dryer, dishwasher, maintenance. 5 min to Lab. Avail Oct 1. \$280/mo plus util. Ext. 3537 or 924-4602.

ROCKY POINT - "The Tides," 7 rm ranch, fp, eik, w/w carpeting, drapes, all appl, 1/2 acre fenced 18x36 in ground pool, 600 sq ft patio, basketball court, sod lawn, trees galore, rear ext lighting, many extras. \$450/mo 1 yr lease plus or sale price, \$58,000. 5261 after 6 for appointment.

Wanted

TO RENT - Unfurnished, 3 rm apt, Pt. Jeff preferred. Ext. 2345.

MATURE WOMAN - to babysit for an infant in our home starting Sept. References required. 744-5875. Shoreham area.

HOME - for very friendly dog, part shepherd, good w/children, excel watchdog, altered male, 2 yrs old. Sue, Ext. 2913 or Ron, 751-5829 after 7.

CHILDREN - 3 and 4 yr old for Wading River Co-operative Nursery School, 2 and 3 days per week available, accommodate working mothers. 929-4133.

TYPIST - to complete partially typed physics thesis. IBM selectric pica type. Leslie, Ext. 4148 or 473-4938.

GO CART - any cond, inexpensive. Ext. 4691.

HOMES - year round for satin-black, Irish Set/Lab retriever mix pups, ready for homes soon, will have shots, etc. Ext. 3325 or 878-4864 after 6.

CLEANING WOMAN - reliable, experienced thorough worker. 475-8658 after 6:30.

ROUND SOLID OAK TABLE - approx 48" diam, pedestal bottom, claw feet. Pat, Ext. 4519.

EXTENSION LADDER - 30 ft working height, reasonable, or rent one from you for 2 wks. Bill Sanchez, Ext. 3848.

MATURE BABYSITTER - for 10 month old child in our home in Ridge beginning Sept 1. Marie, Ext. 2345 or 744-4047.

PLAYPEN - old, used, not needed, for 2 new frisky puppies, a donation to keep our happy home in tact! Onre, Ext. 2065.

CABINET MAKER - to repair or replace fire damaged kitchen cabinets. Leslie, Ext. 4148 or 473-4938.

BOAT - 14'-16' alum, high freeboard, 10-20 HP, outboard eng, lightweight trailer, reasonable. Bill Sanchez, Ext. 3848 or 698-3145.

HOME - for black long hair house cat, clean, gentle and affectionate, excel w/dogs and children. 924-5192.

HOME - for friendly beagle mix dog, male, about 1 yr old, Vet cert and vaccinations. 878-8451 after 5.

HOME - for Siberian Husky, male, 4 1/2 yrs old, AKC reg, owner unable to care for him. Ext. 2345.

POLAROID - square shooter, Minute maker, reporter or super shooter camera. Jim, Ext. 2485.

WHEELBARROW - construction type, to rent for a few weeks or purchase for a reasonable price. Chuck, Ext. 4331 or 698-0710.

Car Pools

DRIVERS - 1 or 2 to complete existing car pool from Riverhead. Pat, Ext. 4519.

DRIVER - 4th person for car pool from western Nassau. J. Farber, Ext. 3042.

RIDERS/DRIVERS - for car pool from East Islip. Ext. Ext. 4532.

CAR POOL - Commack area, 8:30 to 5 shift. Fred, Ext. 4313. Leave number.

DRIVERS - Brookhaven Hamlet/Southaven area. Ron, Ext. 3887 or Debu, Ext. 2633.

RIDE - or car pool to SUNY Stonybrook weekdays starting end of Aug. Wife of BNL employee. Start either from Lab or home in Middle Island. Shenoy, Ext. 3925 or 924-4790.

EAST ISLIP - 2 members desire other rider-drivers. Jake, Ext. 4532.

WESTERN NASSAU - need fourth person for existing car pool. J. Farber, Ext. 3042.

RIVERHEAD - 1 or 2 drivers to complete existing car pool. Pat, Ext. 4519.

Lost & Found

LOST - umbrella at Computer library, Bldg. 515. Ext. 4144.

FOUND - miniature collie in Bellport-Brookhaven area. 286-9007.

FOUND - Glove