BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

The first oxygen ions from the Tandem Van de Graaff reached an experimental target at the Alternating Gradient Synchrotron (AGS) on October 25. And throughout the year, as heavy ions were brought closer and closer to that point, this was a familiar scene in the AGS control room.

December's "Symposium on Phenotypic Variation in Populations" was the second major conference organized this year by the Biology Department, which had hosted the symposium "Aging Processes in Animals" in November. Other major meetings at BNL this year included September's "International Symposium on Lattice Gauge Theory" and August's international meeting on "Short-Term Health Effects of Reactor Accidents: Chernobyl."

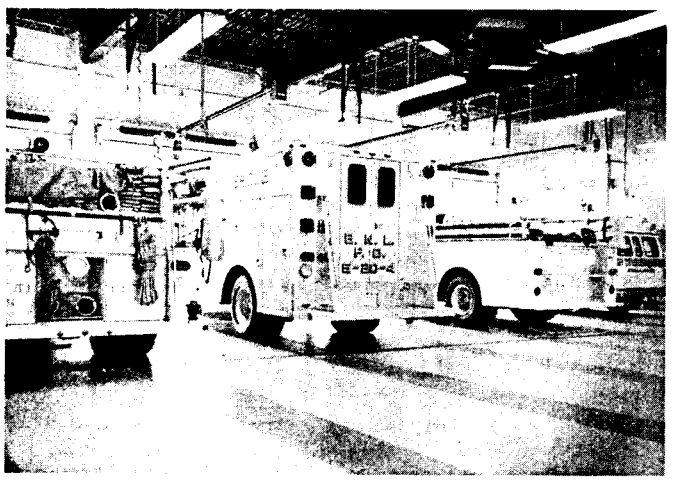
High Points — 1986

One of the high points of BNL's 1986 came in the fall, when totally new physics research got under way at the Alternating Gradient Synchrotron (AGS). With the commissioning of the beam transfer line connecting the AGS and the Tandem Van de Graaff, scientists began experimenting at the AGS with heavy ions generated in the Tandem.

Among other achievements reported in the Bulletin in 1986, BNL biologists found two regulatory genes, chemists measured the half-life of silicon-32 at 172 years, scientists experimenting with ore samples at the National Synchrotron Light Source found "invisible" gold traces in unexpected places, and physicists working at the High Flux Beam Reactor announced the discovery of evidence for nuclear supersymmetry. It was also the year that construction began on the Neutral Beam Test Facility, and that BNL staff alleviated the concerns of groups returning from the Soviet Union by examining them for possible exposure to radiation from the Chernobyl accident.

These photos recall some other activities of 1986.

In August, a committee from Brookhaven Women in Science (WIS) presented a plaque and a check for $1,000 to Rosemary Baker (center) of West Hempstead, the first recipient of WIS's Renate W. Chasman Scholarship for Women. Several awards were also made to Brookhaven researchers in 1986, one of whom was Ernest Courant, who was presented with the Department of Energy's Enrico Fermi Award on December 10. And in September, two BNL developments were judged to be I-R 100 winners, among the year's 100 top technological achievements: an electronic device called a triple hybrid preamplifier and a medical kit for labeling human red blood cells with the radioisotope technetium-99m.

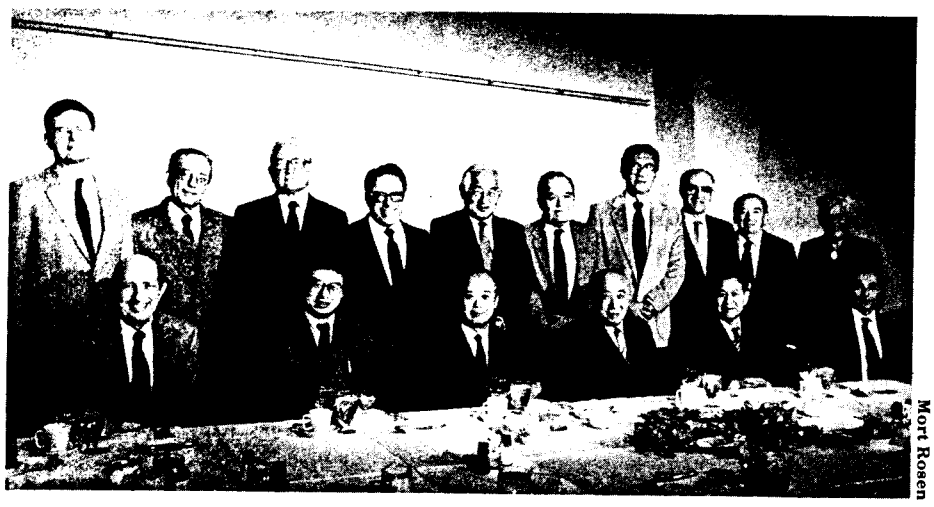


The Laboratory's new firehouse was dedicated on January 14. Filling half of the building's spacious bay area are: (from left) one of the Fire & Rescue Group's two class A pumpers, a unit outfitted with heavy rescue equipment, a high-pressure fog truck and an ambulance.

Fifty-two winners of the High School Honors Research Program sponsored by the Department of Energy spent two weeks at BNL in July, working at the National Synchrotron Light Source (NSLS). Here, two of the students check the alignment of a tungsten crystal sample at the NSLS's vacuum ultraviolet ring, which, in June, had first achieved its design current of one ampere.

The first full-length, prototype dipole magnet for the Superconducting Super Collider got a royal send-off last April. After being fully assembled at BNL, the 17-meter magnet was sent, aboard a flatbed truck, to Fermilab for testing. A second magnet followed in late summer. Magnet development also proceeded for the proposed Relativistic Heavy Ion Collider (RHIC). At year's end, testing was soon to begin on the first four prototype magnets for RHIC.

An ongoing monitoring program determines how well the Lab is controlling the production, treatment and release of any environmental pollutants and is meeting environmental standards and requirements. In one aspect of this program, Senior Technician Richard Lagattolla checks the pH, conductivity and dissolved oxygen levels in the Peconic River, at one of three sampling stations.



Mort Rosen

Reactor Safety of Interest to Chinese

A delegation from the People's Republic of China (PRC) visited the Lab late last year to learn about the Department of Nuclear Energy's (DNE) nuclear reactor safety projects. The Chinese delegation, led by Jiang Shenjie, director general of the PRC National Nuclear Safety Administration and president of the Chinese Nuclear Society (CNS), expressed interest in exchanging technical information with BNL in the field of nuclear reactor safety. The Lab visit was organized by the American Nuclear Society (ANS), as part of an exchange program with the CNS. While on site, the delegates also visited the Alternating Gradient Synchrotron, the High Flux Beam Reactor and the National Synchrotron Light Source.

Shown here are: (seated, from left) BNL Associate Director Seymour Baron; Sun Guangyu, deputy director of the CNS; Zhao Renkai, chief engineer of the PRC Ministry of Nuclear Industry; Jiang Shenjie; Wang Dexi, director of the Graduate School at the PRC Institute of Atomic Energy; BNL Deputy Director Martin Blume; (standing, from left) Michael Diekman, ANS; Morris Reich, head of the Structural Analysis Division, DNE; BNL Associate Director Parke Rohrer; Wolfgang Wulff, DNE; DNE Deputy Chairman Walter Kato; DNE Chairman Herbert Kouts; DNE Associate Chairman Robert Bari; Department of Applied Science Chairman Bernard Manowitz; Jacob Bigeleisen, SUNY at Stony Brook; and Assistant to the Director Herbert Kinney.

BNL's Fabulous Forty

Throughout 1987, BNL's 40th anniversary year, the Bulletin will recount some of the events, large and small, that helped shape these years. To launch this series, we looked back to the first issue of the Lab's first newspaper.

To the Men and Women of Brookhaven Laboratory

Philip M. Morse

We have before us at Brookhaven the exciting job of building the world's greatest center for fundamental research in the atomic sciences. This is a big job, but we have already made a good start. We have the backing of the Atomic Energy Commission and of the big universities of the east. We have buildings, a lot of room, and we have the beginnings of a unified team.

We are starting to build things, to buy equipment and to work together. But we have a long tough drive ahead before we can be a going Laboratory, before the No. 1 Pile is percolating, before the first and second high voltage machines are spouting useful beams of radiation and before the half dozen or more special laboratories are turning out research and training specialists. This research and these new specialists are more urgently needed by this country than guns or butter.

To get the job done well and quickly we must all pull together, must understand in what direction to pull and why we are pulling. This news sheet will help everyone to learn what is going on and why. Your contribution of questions and suggestions will improve it.

Philip M. Morse
Director

With these printed words, BNL's first director inaugurated the mimeographed first issue of what eventually evolved into the Brookhaven Bulletin.

As the Lab's Director from 1946-48, Morse initiated the Lab's first major projects. The No. 1 Pile to which he referred in his letter was the Brookhaven Graphite Research Reactor (BGRR), BNL's first "big machine" and the first nuclear reactor to be built for peacetime scientific research. It was called an atomic pile because 700 tons of graphite blocks were piled into an 25-foot cube to form the moderator, which slowed down the chain reaction within the air-cooled reactor.

On August 11, 1947, on Rutherford Hill, ground was broken for the BGRR, which first sustained a constant chain reaction on August 22, 1950. The BGRR operated for 18 years, until June 10, 1968, when it was placed on stand-by status and all reactor-based experiments were moved to the High Flux Beam Reactor, which had begun operating on October 31, 1965.

The Cosmotron and the 60-inch Cyclotron, the first and second high voltage machines about which Morse wrote, were being designed when the first Lab newspaper was printed. The Cosmotron, the world's first accelerator to reach energies above one billion electron volts (1 GeV), achieved its design energy of 3.3 GeV on June 10, 1952. It ceased operation as of December 31, 1966, and was disassembled in May of 1969. A section of a Cosmotron magnet is on display in front of the Alternating Gradient Synchrotron Department, Bldg. 911.

Commissioned in 1951, Brookhaven's 60-inch Cyclotron was the first such device to be built in the United States. It is still in use, accelerating deuterons, protons, alpha particles and helium-3 ions for studying nuclear reactions, producing radioisotopes and irradiating biological systems.

The "news sheet" in which Morse's letter appeared hit the newsstands on June 15, 1947 — but without a name. A question mark appeared in its nameplate, and employees were invited to suggest a name for the Lab publication.

Isotopics, the winning suggestion, was published every two months, first as a tabloid, later as a magazine, until December 1948. It then deferred to the Bulletin Board, which had been in publication since August 4 of that year. By 1969, the Bulletin Board had grown from a mimeographed sheet to a four-page newspaper, and, on January 3, it became the Brookhaven Bulletin. As it was explained in that issue, "There are many bulletin boards scattered throught the Laboratory, but there is only one Brookhaven Bulletin."

— Marsha Belford

Inside Info

George Vineyard, Senior Physicist and former Director of the Laboratory, from 1973 to 1982, was presented in December with a Certificate of Appreciation from the U.S. Department of Energy (DOE). Signed by Alvin Trivelpiece, Director of DOE's Office of Energy Research, the certificate reads, "For wide-ranging accomplishments sustained over four decades and encompassing landmark theory of rate processes and pioneering computer simulation of condensed matter behavior — including radiation effects, perceptive fostering of research and staff that while Laboratory Director brought the National Synchrotron Light Source into being, and exemplary service at the highest levels to national scientific programs of other agencies, as well as of the DOE and to the general scientific community."

Janet Tempel, Public Relations (PR), has been elected to a one-year term as president of the Long Island Museum Association (LIMA), beginning with the new year. As PR's Tour and Exhibit Coordinator, Tempel is responsible for the BNL Exhibit Center, the three-story museum in Bldg. 701 that explains the Lab's research efforts — past, present and future. The Exhibit Center is one of about 35 Long Island museums whose personnel make up the membership of LIMA.

Hospitality News

A music recital by teachers and students of the Suzuki method will be featured at the next Hospitality Committee get-together on Tuesday, January 6, from 9:30 to 11:30 a.m. at the Brookhaven Center.

Selected pieces, played on the violin, cello and piano, will be performed by Dorris Ammann and Charlotte Murrin, teachers of the Suzuki method, and by some of their students.

We would like to have you join us for this enjoyable presentation. Spouses of Lab employees and guests are welcome. Coffee, tea and danish will be served. Please come and bring the children. Babysitting will be provided free of charge.

Payroll Tax Changes

As a result of the Tax Reform Act of 1986, employees should be aware of the following tax changes that affect the payroll system:

• **New Federal Rates** — New withholding tables have been issued, effective for wages paid after December 31. The revised tables have been installed in the payroll computer system to figure the amount of tax to withhold from employees' pay. Generally, this change will result in less tax being withheld and, consequently, more money showing up in paychecks. Weekly employees will spot the difference in the January 2 paycheck and monthly employees on January 31.

• **New Filing Requirements** — Form W-4, which employees must use to calculate the number of their withholding allowances, was also revised to reflect the changes enacted under the new law. A copy of the revised Form W-4 will be distributed to each employee early next week. Although employees have until September to submit the new form to payroll, the IRS urges employees to file as early as possible to assure the amount of tax withheld will closely match the tax owed for the year.

Cooking Exchange

On Wednesday, January 7, members of the Cooking Exchange will demonstrate Dutch specialities. The meeting will be held in the Recreation Building between 12:30 and 2:30 p.m. As at every meeting, there is a $1.50 charge, and babysitting is provided at 50¢ per child.

For further information, call Judith Van Asselt, 924-6129.

Arrivals & Departures

Arrivals

Alfonso A. Canedo ..... Plant Eng.

Departures

None

Speakers Bureau

Robin Leonard (Med.), St. Joseph's College, "Designing and Implementing a Questionnaire-Based Epidemiology Study," September 10 and October 8.

Meyer Steinberg (DAS), Institute of Environmental Sciences, "Applied Science or Attempting to Solve the World's Problems," September 18.

Caroline Kramer (DAS), St. J seph's College, "An Overview of Epidemiologic Research," October 10.

Leonard Dupuis (DAS), Science Career Day at Half Hollow Hills High School East, "Careers in Meteorology," October 22.

R. C. Anderson (DO, Ret.), The Retired Officers Association, "What Makes Scientists Run," November 6.

Rudy Alforque (NSLS), Hofstra University Mechanical Enginering Students, "Overview of BNL," November 26.

Martha Simon (Bio.), **James Davenport** (Phys.), Gelinas Jr. High School Science Fair, Science Fair Judges, December 9 and 10.

Donald Gardner (Phys.), Harborfield High School Career Day, "Careers in Engineering," December 16.

Suffolk County Community College Course Offerings — Spring 1987

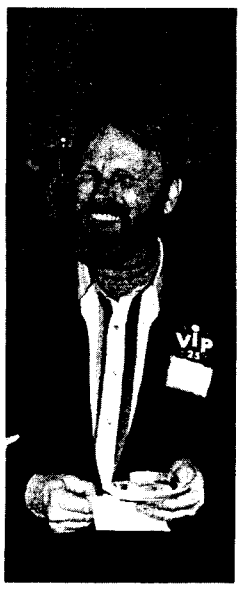
Course	Cr.	Day	Hours	Start Date
AC12 — Principles of Accounting II	4	T/Th	5:15-7:05	1/29
DP53 — COBOL Computer Programming	3	M/W	5:15-7:05	2/2
EG13 — Introduction to Literature	3	T	5:15-8:15	2/3
EK21 — Macroeconomics	3	W	5:15-8:15	2/4

Registration Dates: January 5-16, at Personnel, Bldg. 185.
For more information, contact Pat Knisely, Ext. 7631.

A Party for BNL's VIPs

Some Very Important People attended a reception held in the their honor on December 11, at the Brookhaven Center. These VIPs were the BNL employees who celebrated long-term anniversaries during 1986. Along with spouses and colleagues, 199 VIPs were invited to the party: 82 had been at the Lab for 25 years, 40 for 30 years, 21 for 35 years and 56 had been at BNL from 36 to 39 years.

Photos by Peter Horton



Bowling

Red/Green League

High games were bowled by C. Bohnenblusch 241, R. Sick 226, W. Kristiansen 225, J. Elmore 223, H. Marshall 213, J. Morris 213, L. Jacobson 210, J. Connelly 209, E. Sperry IV 208, T. Holmquist 200.

White League

Ken Riker had games of 234/225/628 scratch, Bob Jones 214/207/624 scratch, Joe Nolan 207, Gerrie Riker 200, Mary Grace Meier 194, Donna Riendeau 189.

All film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

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for the employees of
BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
MARSHA BELFORD, Senior Reporter
LIZ SEUBERT, Reporter

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Aerobic Dance

The Aerobic Dance Club (ADC) can help you get back in shape after the New Year. Instructor Pat Campbell will lead the classes on the ADC's spring program:

- Stretch classes — Involve a choreographed program of exercises that concentrate on stretching and strengthening various muscle groups.
- Aerobic dance — Classes emphasize cardiovascular improvement through vigorous, choreographed exercise.

Classes in aerobic dance will be held on Tuesdays and Thursdays and stretch classes will be held on Mondays. All classes run from 5:15 to 6:15 p.m. Participants may take any or all of these classes. Those signing up for aerobic dance are encouraged to take it both afternoons, or one class of aerobics and one of stretch.

The fee for each ten-week session (M, T or Th) is $30, payable at registration, which will precede the first classes. These classes will be held on the third floor of the Collider Center, Bldg. 1005S, as follows:

- Aerobic dance — Tuesday, January 6, and Thursday, January 8.
- Stretch — Monday, January 5.

For more information, call Paula Bennett, Ext. 3293, or Bill Leonhardt, Ext. 2378.

Volleyball

Standings — Week of December 8

Open League

A. Phoenix	21-0
B. Dakota	17-4
C. Odds & Sods	14-7
D. Court Jesters	13-8
E. Rowdy Radicals	8-13
F. Target	8-13
G. Duituits	2-19
H. Out of Control	1-20

League I

Upfabrabs	19-2
Dinkers	17-4
Xrayted	9-12
Phoubars	8-13
Net Results	6-15
Bumpers	4-17

League II

Nuts & Bolts	16-2
Cannonballs	12-6
TNT	12-6
Fossils	11-7
Chunga's Revenge	8-10
Upton Ups	3-15
Misfits	1-17

League III

Floaters	14-4
Foul Ups	10-8
Printouts	10-8
Sourcerers	9-9
Screwballs	8-10
Not Yets	7-11
Odd Couples	5-13

Cafeteria Menu

Week of January 5

Monday, January 5

Chicken noodle soup	(cup)	.70
	(bowl)	.90
Sautéed beef tips w/1 veg.		2.65
Shrimp stir-fry over rice (lite-weight)		2.75
Hot deli: Roast beef garden club		2.55

Tuesday, January 6

Southern beef soup	(cup)	.70
	(bowl)	.90
Quiche Lorraine w/1 veg. (lite-weight)		2.55
Stuffed peppers w/1 veg.		2.55
Hot deli: Pastrami	(bread)	2.45
	(roll)	2.55
	(hero)	2.65

Wednesday, January 7

Minestrone soup	(cup)	.70
	(bowl)	.90
Braised liver & onions w/1 veg. (lite-weight)		2.55
Spaghetti w/meat sauce & French bread		2.95
All you can eat special (no take-outs)		
Hot deli: Smoked turkey	(bread)	2.45
	(roll)	2.55
	(hero)	2.65

Thursday, January 8

Beef barley soup	(cup)	.70
	(bowl)	.90
Chicken livers w/gravy & 1 veg. (lite-weight)		2.65
Beef kabob over rice		2.65
Hot deli: Meat loaf sandwich	(bread)	2.35
	(roll)	2.45
	(hero)	2.55

Friday, January 9

Boston clam chowder	(cup)	.70
	(bowl)	.90
Beef & broccoli stir-fry over rice		2.65
Broiled fish w/1 veg. (lite-weight)		2.85
Hot deli: Chili dogs		.95 each

New Season At Swimming Pool

Tickets for a new four-month season (January through April, 1987) will go on sale at the pool during open hours starting Monday, January 5. (Note: Valid date on last season's tickets has been extended to January 4.)

Fee schedule

Season tickets (fees not prorated):

Individual membership	$25.00
Family membership	$35.00

Season tickets are sold only to employees and their immediate family members residing in the same household.

Daily admissions:

Employee	$1.25
Family member	$1.25
Guest	$1.75

Open hours

Monday through Friday:
11 a.m. to 1:30 p.m., employees only
5 p.m. to 9:30 p.m., employees, families and guests

Saturday and Sunday:
1 p.m. to 6 p.m., employees, families and guests

The pool is closed on all Laboratory holidays.

Guest ruling (Applies to pool as well as to other recreation facilities.)

One guest — An employee is allowed to bring one guest per visit without special permission or prior arrangement. *The guest must be accompanied by the employee.*

Two to five guests — Advance arrangements for two to five guests may be made at the Recreation Office in Personnel. *(No more than five guests per employee is ever permitted.)* When such an arrangement is made, an admission card is issued stating the employee's name and life number, the number of guests permitted, the date of the visit, and the facility to be visited. Guests must be accompanied by the employee, who will be requested to show the admission card at the main gate and at the swimming pool ticket desk.

Swim Club

Swim Team Captain Peter Heotis will offer a butterfly-stroke clinic on Thursday, January 8, at 5:15 p.m., at the BNL pool. All those who want to learn or improve their fly are invited to attend. For more information, call Heotis, Ext. 2304, or Marsha Belford, Ext. 5053.

Twenty-three ribbons for top-three, age-group placings were awarded to the eight members representing the BNL Swim Team at the White Plains YMCA Masters Swim Meet on Sunday, December 14. In addition, eight personal records were set: In the 50-yard freestyle, Peter Heotis, Wlodek Guryn and Don Makowiecki swam personal bests; Guryn as well posted his best time in the 50-yard butterfly; and Carrie Grimshaw and Peggy Micca swam their fastest times in the 50-yard breaststroke and 100-yard breaststroke.

50-yard Freestyle		
Peter Heotis	25.13	3rd men 35-39
Wlodek Guryn	26.97	5th men 35-39
Roger Klaffky	30.27	4th men 40-44
Paul Michael	32.53	2nd men 55-59
Don Makowiecki	39.06	6th men 40-44
100-yard Freestyle		
Peter Heotis	57.80	1st men 35-39
Wlodek Guryn	1:03.39	2nd men 35-39
Roger Klaffky	1:07.22	2nd men 40-44
Paul Michael	1:16.90	3rd men 55-59
Marsha Belford	1:19.83	3rd women 30-34
Don Makowiecki	1:34.51	5th men 40-44
50-yard Butterfly		
Peter Heotis	28.31	3rd men 35-39
Wlodek Guryn	29.94	4th men 35-39
Marsha Belford	40.70	2nd women 30-34
Carrie Grimshaw	46.28	3rd women 20-24
100-yard Butterfly		
Peter Heotis	1:04.24	2nd men 35-39
Wlodek Guryn	1:12.67	3rd men 35-39
Marsha Belford	1:32.92	1st women 30-34
50-yard Backstroke		
Wlodek Guryn	34.75	1st men 35-39
Don Makowiecki	51.30	3rd men 40-44
100-yard Backstroke		
Roger Klaffky	1:26.86	3rd men 40-44
50-yard Breaststroke		
Carrie Grimshaw	46.77	3rd women 20-24
Peggy Micca	50.26	4th women 40-44
100-yard Breaststroke		
Marsha Belford	1:35.40	3rd women 30-34
Carrie Grimshaw	1:47.70	1st women 20-24
Peggy Micca	1:49.67	2nd women 40-44
200-yard Breaststroke		
Peggy Micca	3:50.50	2nd women 40-44
100-yard Individual Medley		
Marsha Belford	1:28.72	2nd women 30-34
Paul Michael	1:34.80	3rd men 55-59

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 and/or appropriate bargaining unit, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific 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.

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 Employment Manager, Ext. 2882.

THE VACANCIES LISTED BELOW HAVE BEEN EXEMPTED BY THE DIRECTOR'S OFFICE FROM THE CURRENT FREEZE ON OPEN REQUISITIONS.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

2512. SECRETARIAL POSITION - Requires excellent secretarial and communication skills and an extensive knowledge of BNL policies and procedures. Will perform diverse administrative and technical secretarial duties for an Associate Department Chairman and the Surface Physics Group. Under minimum supervision, will type technical manuscripts (on Micom word processor), arrange domestic and foreign travel, and maintain group files. Knowledge of shorthand useful. Physics Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2513. CLERICAL POSITION (50%, temporary -9/30/87) - Responsibilities include the preparation of manuscripts, reports, and correspondence on an NBI word processor. 4:30-8:30 p.m. Safety and Environmental Protection Division.

2514. TECHNICAL POSITION - Requires AAS in mechanical technology or equivalent experience. Must have ability to read complex blueprints and assemble precision components. Knowledge of UHV procedures and practices desirable. National Synchrotron Light Source Department.

2515. TECHNICAL POSITION - Requires AAS in electronic technology or equivalent experience with knowledge of accelerator operations. Will be responsible for the safe, efficient operation of the NSLS machines. Knowledge of computers, microprocessors, high power DC & RF equipment is desirable. Must be willing to work on a rotating shift schedule. National Synchrotron Light Source Department.

2516. TECHNICAL POSITION - Requires AAS in chemistry plus two years experience. Will perform routine analytical chemistry duties in support of research projects in human health and environmental monitoring. Duties include titrations, precise preparation of standard solutions, quantitative measurements, preparation of analytical samples, glassware, recordkeeping. Microcomputer familiarity desirable. Safety and Environmental Protection Division.

2517. TECHNICAL POSITION - Requires AAS or equivalent in electronic or electromechanical technology to work as operator in AGS main magnet power supply group. Work involves operation and maintenance of the main power supply. Experience in high voltage is required. Rotating shift work. Alternating Gradient Synchrotron Department.

2518. COMPUTER OPERATIONS POSITION - Requires AAS degree in data processing or successful completion of computer operations training program or equivalent experience. Will assist in the operation of a Hewlett-Packard 3000 computer. Must be willing to work shifts. Management Information Systems Division.

Autos & Auto Supplies

79 DODGE OMNI - 4 cyl., 4 dr., 5 spd., a/c, am/fm, rebuilt eng., good cond., $950. Masaaki, Ext. 2890 or 3213.

85 OLDSMOBILE - Royale Brougham, 26k mi., most options, mint cond., must be seen, $9,400. Ext. 2981 or 473-7809.

70 TOYOTA CORONA - parting out, stand. trans., Gen. tires, trans R8. Hank, Ext. 3848 or 472-0553.

82 DATSUN - King Cab pickup, w/cap, excel. cond., $3,500. Joe, Ext. 2575 or 281-2767, eves.

76 CHEVY IMPALA - excel. cond., 4 dr., a/c, am/fm, a/t, new brakes, trans., starter, $1,350. 475-2075.

73 FIREBIRD - 327, body very good cond., $1,000. Ken, 473-7460.

79 MERCURY CAPRI - 6 cyl., 66k mi., mint cond., a/t, p/s, p/b, stereo/cass., $2,000. 924-1766.

74 VW BUS - new a/t, heating system & 5 new steel-belted tires, no eng., asking $600. 286-2151.

77 CHEVETTE - blue, 3 dr., 5 spd., 32 mpg., new parts, runs well, needs brakes, $500 neg. Voytek, Ext. 2229, 5125 or 3220, eves.

84 DODGE - 4 dr., 40k mi., orig. owner, A-1 cond., fully loaded, asking $6,000. 924-3236.

85 SKYLARK - a/c, p/s, p/b, am/fm cass., sunroof, 40k mi., excel. cond., $5,400. Chun, Ext. 2014 or 3008, eves.

80 DATSUN 200SX - htchbk., a/t, black, stereo, sunroof, $1,800. 928-4069, eves.

66 DODGE GT - convertible, 6 cyl., a/t, 43k mi., new brake system, needs work, $400. H. Sauter, Ext. 3783.

75 FORD ELITE - a/t, a/c, p/b, p/s, am/fm, new trans., reliable transp., $500. Ext. 7901 or 821-9328.

TRANSMISSION - for Chevy Chevette. Aharon, Ext. 7979 or 3015.

76 TOYOTA COROLLA - liftback, a/c, am/fm cass., runs well, $800 neg. 265-5423.

75 CAMARO - rebuilt 6 cyl., radio, wire wheels, excel. tires w/raised letters, $2,500. Ext. 2529.

80 HONDA CX500 - low mi., $1,000; 83 Yamaha Virago 750, black, garaged, $2,000; both mint cond., extras. Charles, Ext. 7749 or 789-1744.

82 DODGE ARIES - wagon, 4 cyl., am/fm, cb, a/c, trailer hitch, good cond., $3,500; 81 Chevy, 4 dr., 4 cyl., am/fm, a/c, good cond. 654-1146 after 5 p.m.

78 COUGAR XR-7 - 351, excel. cond., blue, am/fm cass., a/c, new tires, $2,300. Bert, Ext. 2050.

83 TOYOTA TERCEL - good cond., high mi., new tires, muffler, $2,000. 878-0325 after 7 p.m.

79 OLDSMOBILE - Cutlass Calais, runs like new, all pwr., positraction, very clean, asking $2,500. 475-6056, eves.

77 CHEVY MALIBU - wagon, asking $800. Ext. 7107 or 924-8630.

84 HONDA ACCORD LX - htchbk, 5 spd., p/s, cruise, am/fm cass., mint cond., 30k mi. Henry, Ext. 4547 or 727-7227.

81 FORD ESCORT - wagon, am/fm cass., runs well, $1,900. Amina, Ext. 5508.

69 CHEVY - pickup, V8, a/t, ladder rack, good work truck, $350. 744-4386.

72 MERCEDES BENZ - 4 dr., model 250, good cond., asking $2,200. 77 Mercury Cougar, good transp., asking $699. John, Ext. 3292 or 286-1348.

76 PONTIAC - Ventura, htchbk., 80k mi., tape, a/c, $1,200 book, make offer. Ext. 4560 or 473-2297.

Boats & Marine Supplies

28' OWENS - 1963, wood, tight hull, eng. needs work, forced to sell, $500. Bert, Ext. 2050.

22' SEARAY - 1977, cuddy, 198 Merc i/o, VHF, CB, dual batteries, trim tabs, stove, sink, depth finder, much more, excel. cond., $7,000 firm. 286-1358.

Miscellaneous

FLASHBULBS - assorted sizes, $3 takes all; flashlights, $1 ea.; kerosene can, $4. Joe, Ext. 2898.

PISTACHIOS - Calif. Natural, 2 lb. tin cans, 5 lb. plastic bags & 25 lb., 40 lb. boxes. 928-3033.

HEAD BOARD - cherry, K-size, Ethan Allen, $25. 281-5792.

DINING ROOM SET - Danish modern, china cupboard, buffet, formica top table & leaves, 4 chairs, A-1, $400. 669-4479.

SNOW THROWER - Sunbeam Snow Champ, 12", elec., new, $175. Kevin, 878-4285 after 5:30 p.m.

WELL SYSTEM - 1 h.p., jet Pump, 30 gal. tank w/micromet attached, $50. John, Ext. 3675.

FIREWOOD - cut to fireplace length, approx. 1 cord, hard wood, best offer. Ray, Ext. 4428 or 467-8297, eves.

H-O TRAINS - on 4'x8' board, 3 eng., 15 cars, extra tracks, switch & acces., $50. 744-2461 after 6 p.m.

FORMICA TABLE - & 4 chairs, $35; gas stove, excel., continuous cleaning oven, $100; playpen, $10. 878-6637.

TV - b/w, 12" RCA, 1 yr. old, $25. Ext. 2031.

SINGLE TICKETS - Juilliard String Quartet, Tully Hall, 3 p.m., Jan. 17, Mendelssohn, Brahms, Dvorak, $12.50. Ext. 2914 or 286-3742, eves.

MOVING SALE - 7' sofa, 2 chairs, $175; marble lamp, $55.; elec. organ, $175. dishwasher, $90; refrigerator, $350; more. Jerry, Ext. 2907.

COLONIAL DEN SET - solid pine, sofa, love seat, chair and ottoman, good cond., $300. neg. 928-7042 after 5 p.m.

JACKETS - Boy Scout, wool, 2 red, 1 green, men's 38, 42, 44, $20 ea., Ext. 2529.

DRESSER - antique Princess, 2 drawer, orig. oval mirror, excel. cond., $550. Henry, Ext. 4547 or 727-7227.

RUG - 14'x23' orange w/padding, $20; girl's bike, 26", 10 spd., $30. Martha, Ext. 7655 or 584-7206.

DOWN PARKA - women's size 8, red, brand-new. Chris, Ext. 2907.

FIREWOOD - split, seasoned oak, 4'x16'x18" pieces, delivered, $105. 732-2849.

BOY'S CLOTHING - like new, sized 14-18, $1 ea.; traverse rods, new $5. ea.; full bed frame, space heater. Spark, Ext. 4111.

SNOW BLOWER - Sunbeam, elec., 21" wide w/headlight, orig. $230, now $125; windows, double hung, thermo-pane. Victor, Ext. 2395.

FIREWOOD - seasoned oak, split, stacked, delivered, full cord 4'x4'x8' $140; half cord, $75. Jim, 698-2501.

STORM WINDOWS - (2) alum., 33⅞"x54¾", $10 ea. Bill, Ext. 2047.

BABY ITEMS - Prego coach carriage, play pen, sassy seat, high chair, excel. cond. Ady, Ext. 4531 or 331-3785.

PC COMPUTER MONITOR - Radio Shack model VM-2, monochrome, 1 yr. old, excel. cond., orig. $140, asking $90. John, 286-1348.

DRYER - elec., G.E., heavy duty, excel. cond., Ext. 2033 or 363-7286.

Lost & Found

FOUND - Old English Sheepdog, Shirley area. John, Ext. 5152 or 281-2471.

FOUND - Camera at Science Store, Dec. 19. Ext. 2345.

Real Estate

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

For Rent

MIDDLE ISLAND - Artist Lake condo, 1 bdrm., l/r, kit., full bath, a/c, new w/w, dishwasher, redecorated, pool, 5 min. to Lab., avail. Jan. 5, $650, heat inc. Ext. 3144 or 698-5046, eves.

HILTON HEAD, S.C. - 2 bdrm. condo, sleeps 6, many extras, golf, tennis and plenty of sunshine, $300/wk. 585-9149.

NORTH SHIRLEY - 2 bdrm., l/r, eik, formal d/r, use of garage & bsmt., 2 mi from Lab., w/w, $750/mo., heat inc. Rich, Ext. 4482 or 277-1129.

MORICHES - charming 1 yr. old country cottage, 1 lg. bdrm., full bath, kit./dining/living area, w/w carpet, full bsmt., w/d hookup, cable, cac, more. Ext. 5186 or 878-9284.

CENTER MORICHES - waterfront apt., 2 bdrm, eik, l/r, pvt. ent., w/w, cable, a/c, dockspace avail., dead-end street, all util., $675 neg. 878-8177.

WADING RIVER - 1 bdrm., furn. apt., single occup., pvt. ent., very quiet & secluded, priv. beach, $600 inc. all. 929-4113.

YAPHANK - 2 bdrm. house, quiet, bright and clean, fenced yard, $500/mo. + util., lease. Ext. 7657 or 924-2933/924-6493.

For Sale

SHOREHAM NORTH - 4 bdrm. Colonial, ½ baths, den/fp, bsmt, fenced, patio, formal d/r, 44-1750.

DELRAY BEACH, FL. - 2 bdrm. condo, 2 baths, appl., enclosed porch, many improvements, semi-attached, near water, clubhouse, sauna, pool, sports, mature adults, $38,000. Ext. 4192 or 751-7787.

Wanted

HOUSEMATE - to share 3 bdrm. house on lake, 8 mi. from Lab, avail. 1/15, $400/mo. + ½ util. Jory. Ext. 5508 or 929-6941.

BENCH SEAT - for late model Ford van, w/seat belts. Ext. 3803 or 467-1090.

ROOMMATE - share 2 bdrm. apt. Ext. 4962.

TRAINS - Lionel, American Flyer, accessories, any cond., brings good price. Carole, Ext. 3362 or 924-4097, eves.

HOUSE - 1 or 2 family, to buy, Gordon Heights area. Ext. 2487 or 928-6930.

DOCK SPACE - Moriches to east Patchogue, 22', i/o, March-Nov. 87, family. Tony, Ext. 3198 or 924-5248.

GERMAN LESSONS - young women needs instruction. 286-0270, eves.

Services

*Services are listed as a courtesy to BNL employees. They are neither screened nor recommended by the **Bulletin**.*

ROTOTILLING - Troybilt, lawns, garden; chainsaw service. Bob, 732-9517.

PAINTERS - reliable, fast, neat, affordable, 3 yrs. experience. Mark, 265-3894, leave message.

HOME MOVIES - transferred to VHS video cassette, great gift, reasonable price. 467-8297 after 6 or wknds.

BABYSITTER - avail., experienced, responsible 14 yr. old., Smithaven Mall area, transp. needed. Jessica, 981-3798.

BARTENDING - for all occasions, complete prof. service, hostess avail. Bob, 744-3289.

Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Ads for the sale or trade of firearms will not be accepted.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
7. **Property for sale and rent cannot be accepted on this form. Special Real Estate Ad Forms are available at the office of the Brookhaven Bulletin, Building 134.**

☐ For Sale: Autos & Auto Supplies ☐ For Sale: Miscellaneous ☐ Lost & Found ☐ Free
☐ For Sale: Boats & Marine Supplies ☐ Car Pools ☐ Wanted ☐ _____

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.

Note: The following must be completed for your ad to appear.

NAME (Please Print) .....

Employee's Signature ..... Life No. ..... Ext. .....

Send to: Brookhaven Bulletin, Building 134 (Ext. 2345).