BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

Mort Rosen

The Anniversary Symposium held in September to mark BNL and AUI's first forty years featured two days of talks by six distinguished speakers.

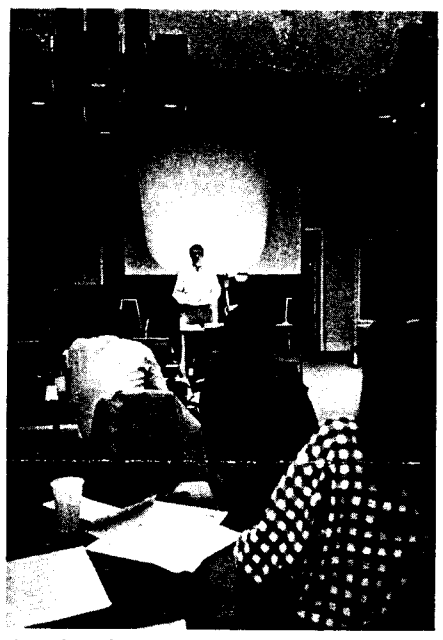
The 40th anniversary celebration concluded with a ground breaking for the Accumulator Booster for the AGS. First to dig in were: (from left) AUI President Robert Hughes, Congressman George Hochbrueckner and Wilmot Hess, DOE Associate Director for High Energy and Nuclear Physics.

Mort Rosen

Another highlight of the 40th Anniversary Symposium was the dedication of the AGS Complex to the memory of Leland J. Haworth, Laboratory Director from 1948-61. Standing beside the newly unveiled plaque on the side of Bldg. 911 are Haworth's wife Irene, their son John (left), and Gerald Tape, the main speaker at the ceremony.

In March, Masaki Suenaga (left) and Arnold Moodenbaugh announced that they had synthesized a new high temperature superconductor from a combination of metallic oxides. Their material becomes superconducting at temperatures in the range of 90-100 kelvins, the second compound to do so.

Mort Rosen



Mort Rosen

As the first session of the Lab's new Science and Engineering Research Semester Program concluded in December, the seven college student participants discussed their research at BNL, in projects ranging from nuclear medicine to chemical reactions. Last July, when BNL again participated in DOE's two-week High School Honors Research Program, 57 students observed "big science" at the NSLS and participated in three experiments there.

High Points — 1987

The high point of BNL's 40th year came in September, when a three-day scientific symposium and a Lab-wide picnic celebrated this important anniversary. At year's end, BNL's 40-year affiliation with Associated Universities Inc. (AUI) was assured of continuing, as AUI signed a new five-year contract to manage the Lab for the Department of Energy (DOE).

During this milestone year, researchers used BNL facilities to probe the phenomenon of high temperature superconductivity. In February, BNL scientists created the second compound to become superconducting at 90-100 kelvins.

Another "super" event came in February, when neutrinos from the explosion of the first supernova observed on Earth in almost 400 years were detected by an experiment in which Brookhaven participates.

Other important 1987 milestones came at the National Synchrotron Light Source (NSLS) where the 200-milliampere current barrier was first broken in the x-ray ring in January; the initiative to develop a compact synchrotron received its first funds in March; light came out of the first of five Phase II beam lines in May; the first spectrum of a monochromatic beam was recorded at the Laser Electron Gamma Source of the x-ray ring in June; and the Phase II expansion was dedicated in September.

At the Alternating Gradient Synchrotron (AGS), a beam of silicon ions, generated in the Tandem Van de Graaff accelerator, was accelerated for the first time in March. And in April, the first commercially made, superconducting magnets for BNL's proposed Relativistic Heavy Ion Collider (RHIC) were successfully tested, a prelude to RHIC's successful June review by DOE.

Three prestigious I-R 100 awards were bestowed on BNL in September for scientific devices developed here. At a December ceremony, the distinguished career of Gerald Tape, past AUI President and former BNL Deputy Director, was recognized, as he received DOE's 1987 Enrico Fermi Award.

Another key figure in BNL's 40-year history, who paved the way for many of the accomplishments recalled on this page, was George Vineyard, who died in February. Vineyard, who served as Laboratory Director, from 1973 to 1981, was mourned throughout the Lab.

Mort Rosen

At a press conference at the NSLS in April, Congressman George Hochbrueckner (second from left) explained that the NSLS would get $750,000 of the $1 million the Department of Defense had allotted for the development of a compact synchrotron. This technology will ultimately lead to the commercial production of high-speed computer chips by x-ray lithography. Also meeting the press were (from left) NSLS Chairman Michael Knotek, BNL Director Nicholas Samios and BNL Deputy Director Martin Blume.

Peter Horton

More than 3,500 BNL'ers scoffed at the sullen September sky and came to the 40th Anniversary Picnic, to enjoy themselves with old friends — and meet some new ones.

Mystery of Matter

Non-scientists who always wondered about the particles, accelerators and detectors that fascinate high energy physicists are invited to enroll in "The Mystery of Matter: An Anecdotal Look at Particle Physics, from Quarks to Atom Smashers." This three-credit, continuing education course will be given during the spring semester by Guest Physicist Michael Marx, Physics Department. Marx is a professor of physics at the State University of New York at Stony Brook, where classes will be held on Mondays, 7-10 p.m., beginning Monday, January 25.

The course requires no math and no previous physics courses. Marx will offer an anecdotal history of particle physics, reviewing important experiments and their fundamental results, the scientists involved and the tools of the trade. The book to be used for the course is *The Particle Explosion*, written by Frank Close, Michael Maren and Christine Sutton.

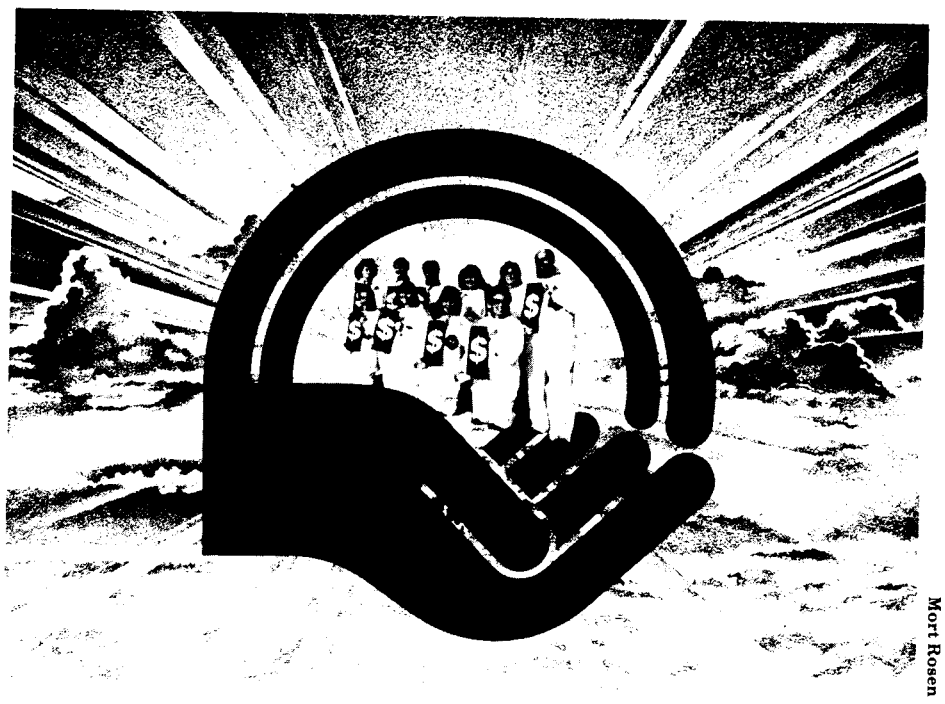
For more information about the course and registration, call the Center for Continuing Education, 632-7050, before the last registration day, Friday, January 22.

UFOs Finish the Campaign

This year's BNL fund drive for the United Way is over — the Unidentified Fundraising Organizers have unmasked and are vanishing into the sunset. They are leaving a behind a total of $70,000, contributed by BNL employees for the people assisted everyday by United Way agencies.

Although donations did not reach the goal of $87,000, those who did give gave more than last year. Said Betty Pergan, campaign treasurer, "What we missed this time were many of the gifts of one dollar or fifty cents a week. Maybe people thought these gifts are too small to make — but they add up. It was the loss of the small gifts that made the difference. I never close the door to donations, so if anyone has a change of heart, just let me know."

Said Trudi Neuhoff, campaign chair, "Though it is short of our goal, many people will be helped by BNL's contribution. Thanks to all who gave — including the BNL alumni who joined our effort, and especially the UFO's."



Mort Rosen

UFOs no more, the now Identified Fundraising Organizers are: (back, from left) Susan White-DePace, National Synchrotron Light Source; Mike Piraino, Applied Science (DAS); Trudi Neuhoff, DAS; Pat Aud, DAS; Kathy Brown, Alternating Gradient Synchrotron; Frank De Rosa, Plant Engineering; (front, from left) Rich Tulipano, DAS; Liz Seubert, Public Affairs; Ruth Coughlan, DAS; Betty Pergan, DAS.

Gospel Returns to Berkner In 7th Extravaganza

In celebration of Black History Month, the Afro-American Culture Club will present its 7th Annual Gospel Extravaganza on Saturday, February 6, at 7 p.m., in Berkner Hall.

This year's Extravaganza will feature four choirs: The Central Jersey Community Choir; The Young Adult Choir, Somerset, New Jersey; The Jenkins Brothers, Somerset, New Jersey; and The Channel of Blessings, Freeport, New York.

Adult tickets to the Extravaganza are $8 when purchased in advance, $10 at the door; tickets for children under 12 are $5 in advance, $7 at the door. For more information contact April Donegain, Ext. 2459; Mary Durham, Ext. 7143; Frances Ligon, Ext. 3709; Bruce Penn, Ext. 7213; or Public Affairs, Ext. 2345.

The Central Jersey Community Choir, which was organized in May 1976 and now has 25 members, was the second place winner in the 1986 Gospel Fest, sponsored by McDonald's and Coca Cola and held at St. John's Cathedral in New York City. The Choir's repertoire includes various types of sacred music, including anthems, spirituals, traditional and contemporary Gospel and music about black survival. In addition to TV and radio appearances, the Choir has performed frequently in New Jersey, at churches, schools, civic and governmental organizations, community and cultural enrichment programs. The Choir has also given concerts in New York, Pennsylvania, Washington, D. C., Virginia and Ohio.

To Your Health

"Testicular & Prostrate Cancer: Early Detection & Treatment" will be discussed by Physician Wayne Waltzer at the next Health Promotion Seminar, on Tuesday, January 12, at noon, in Berkner Hall, Room B. Waltzer is with the Department of Urology at the School of Medicine, State University of New York at Stony Brook.

PSI News

Lilita Bergs of the Museums at Stony Brook will present a slide program about the museums at the next monthly meeting of the Upton Chapter of Professional Secretaries International. The meeting will be held on Monday, January 11, at 6 p.m., in Berkner Hall, Room C.

Desktop Publishing

A meeting for all people interested in desktop publishing will be held on Tuesday, January 12, at 2 p.m., in the Applied Math Seminar Room, Bldg. 515. We hope that a special interest group on the topic will be constituted and will hold regular meetings in order to exchange ideas and to formulate guidelines. More details can be found in the December issue of the BNL Computing Newsletter.

Years Add Up for ADD and Physics Staffs

Mort Rosen

Accelerator Development Department (ADD) Chairman Eric Forsyth (standing, right) congratulated the ADD staff who received service awards in 1987: (front, from left) Mark Sardzinski (10 years), Herb Hildebrand (25), Norm Franklin (25), Joe Cuccia (30), Dave Cattaneo (10), John Slavik (25), Ben Azzara (10), Rich McClusky (20), John Mazzeo (25), Bill Schneider (25), Paul Mohn (25), Dick Hogue (25); (back, from left) Jim Osterlund (10), Tom Muller (10), Stan Pollack (40), Gerry Morgan (25), Rich Thomas (10), Harvey Lotko (30), John Wilcenski (25), Bill Kristiansen (25), Dean Campbell (25), Austin Gwilt (25), Ralph Shutt (40), Charles Briening (25), Bill DeJong (10) and Bill Sampson (25). Missing from picture: Al Bertsche (20), Audrey Karzenski (10), Jim Licari (10), Tony Muscarella (25).

Peter Horton

Members of the Physics Department who observed BNL anniversaries in 1987 were honored at a reception on December 16. The honorees included: (front, from left) Ralph Shutt (40 years), Robert Chrien (30), Thomas Canizzo (10), Marie Grahn (10), Frank Merkert (25), Fern Coyle (20), Alfred Saulys (20), Joseph Yelk (20); (center, from left) Richard Sutter (25), Carl Jacobs (25), Laurence Trueman (25), Harold Kirk (10), Anthony Meade (25), Alfred Roebuck (25), Claudio Rebbi (10), Arthur Nintzel (10), Peter Schnitzenbaumer (10); (rear, from left) Gen Shirane (25), Mario Manni (25), Richard Strand (25), Edward Bihn (25), Virginia Stewart (10), Rudolph Sternheimer (35), Robert Lindgren (40), Hans Abendroth (20). Not present for photo: Theodore Erickson (25), John Guthy (25), Robert Liegel (25), Elizabeth McBreen (10), Dean McDonald (10), Frederick Paffrath (30), Kathleen Tuohy (10).

Coming Up

Masaki Suenaga, Senior Metallurgist in the Department of Applied Science, will deliver the next Brookhaven Lecture. He will speak about "Promises and Challenges: A Metallurgist's View of High Temperature Superconductors," on Wednesday, January 20, at 4:30 p.m., in Berkner Hall.

Cooking Exchange

Foods that can be cooked at the table and those that can be prepared in casseroles will be discussed at the next meeting of the International Cooking Exchange, on Wednesday, January 13, from 12:30 to 2:30 p.m., in the Recreation Building in the apartment area on site.

The cold winter weather traditionally calls for hot nutritious foods, which are prepared in one pot and eaten by people gathered around the table in the warm spirit of friendship. Fondues and one-pot cooking will be demonstrated at this meeting.

All Brookhaven employees and their families are welcome. There will be a charge of $2 to help defray the cost of ingredients, and all attendees will be able to sample the dishes prepared. Babysitting will be provided at 50¢ per child.

In Stormy Weather:
Dial 282-INFO

Cafeteria Menu

Week of January 11

Monday, January 11

Beef barley soup	(cup)	.75
	(bowl)	.95
Baked ham w/fruit sauce & 1 veg.		2.95
Hungarian goulash over noodles		2.85
Baked macaroni & cheese w/1 veg.		2.75
Hot deli: Sliced breast of roast turkey	(bread)	2.75
	(roll)	2.85
	(hero)	2.95

Tuesday, January 12

Corn chowder	(cup)	.75
	(bowl)	.95
Salisbury steak w/1 veg.		2.95
Chicken à la king over rice		2.85
Chef's salad plate		2.35
Hot deli: Sloppy Joe on a bun		2.85

Wednesday, January 13

Split pea soup	(cup)	.75
	(bowl)	.95
Roast turkey w/dressing & 1 veg.		2.95
Pork fried rice		2.75
Super sausage pizza	(slice)	1.25
Hot deli: Baked ham	(bread)	2.75
	(roll)	2.85
	(hero)	2.95

Thursday, January 14

U.S. Senate bean soup	(cup)	.75
	(bowl)	.95
Italian lasagna w/garlic toast		2.85
Chicken vegetable Oriental over rice		2.95
Antipasto plate		2.25
Hot deli: Pastrami	(bread)	2.75
	(roll)	2.85
	(hero)	2.95

Friday, January 15

Manhattan clam chowder	(cup)	.75
	(bowl)	.95
Chicken cacciatore w/noodles		2.85
Baked fish supreme		2.85
Hot Deli: Sliced roast beef	(bread)	2.75
	(roll)	2.85
	(hero)	2.95

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VIPs Feted at Year's End

—photos by Peter Horton

BNL's 241 VIPs were honored at a reception at the Brookhaven Center on December 15. These Very Important People were all employees who celebrated long-term anniversaries during 1987. For the first time, this group included 20 employees who were observing their 40th year at the Lab, as they came on board in 1947, the year BNL began. Also invited to the party along with their spouses and colleagues were 121 employees who had been at the Lab for 25 years, 42 who had been here 30 years, ten who had accumulated 35 years, and 48 whose years of service numbered between 36 and 39.

In the Swim

Mort Rosen

In their second year of masters swimming competition, the BNL Swim Club again has four team members who won Empire State Masters swim season awards for their respective age groups. For the 1987 season, (top) Carrie Grimshaw finished second of all women 20-24, (bottom, from left) Toshi Sugama came in third overall among men 40-44, Wlodek Guryn placed third among men 35-39, and Team Captain Peter Heotis was second of all men 35-39. Sugama and Heotis also won last year.

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

Arrivals & Departures

Arrivals

Asher Auerbach	Biology
Michael P. Barrett	Plant Eng.
Barrett T. Clay	AGS
Louis F. DiMauro	Chemistry
Cynthia A. Fridrich	Accel. Dev.
Paul D. Hale	DAS
Gary F. Hanlon	Plant Eng.
Maryanne Kmit	AGS
Chau M. Lac	Accel. Dev.
William Lee	Plant Eng.
Yung-Nien Sun	DNE

Departures

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

Frank L. Candiano	Plant Eng.
Richard J. Gard	Chemistry
Patrick J. Giambalvo	Sfgrds. & Sec.
Gilb Gilbert	NSLS
Julius M. Hastings	Chemistry
Adolph P. Irsa	Chemistry
JoAnn Langan	Appl. Math
Blanche Laskee	Personnel
Walter M. Loss	DAS
Robert A. Lindgren	Physics
Paolo Nason	Physics
Martha L.S. Peng	MIS
Carol A. Russo	Medical
Alice S. Trubisz	Fiscal
Charles Watson Jr.	Plant Eng.

Swim Club

Get back into the swim of things in the new year with the Swim Club. Beginning Thursday, January 14, the Swim Club will meet on the second Thursday of each month from 5:15-6:30 p.m. at the BNL pool for coaching sessions and group practices. At the first meeting of 1988, we will hold a distance workout. Advanced beginners through competitive swimmers are invited to attend. For more information about Swim Club meetings, informal workouts and U.S. Masters swimming competition, call Marsha Belford, Ext. 5053, or Peter Heotis, Ext. 2304.

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In 22 events, five BNL swim team members finished no less than third place in their respective age groups at the Mid-Island YM-YWHA's Halloween masters swim meet on Saturday, October 31 in Plainview. In addition, Wlodek Guryn placed first overall in the 100-meter individual medley and third overall in 100-meter freestyle. Peter Heotis came in second overall in 200-meter freestyle and 100-meter individual medley, and third overall in 50-meter freestyle, and 50-meter and 100-meter butterfly.

50-meter Freestyle

Peter Heotis	28.68	1st men 35-39
Peter Cameron	30.90	3rd men 40-44
Marsha Belford	40.20	2nd women 30-34

100-meter Freestyle

Wlodek Guryn	1:08.21	1st men 35-39
Peter Cameron	1:11.26	2nd men 40-44
Marsha Belford	1:28.44	1st women 30-34

200-meter Freestyle

Peter Heotis	2:28.55	1st men 35-39
Peter Cameron	2:39.86	2nd men 40-44
Marsha Belford	3:08.24	2nd women 30-34

50-meter Butterfly

Peter Heotis	31.22	1st men 35-39
Wlodek Guryn	33.24	2nd men 35-39

100-meter Butterfly

Peter Heotis	1:12.24	2nd men 35-39

50-meter Backstroke

Wlodek Guryn	38.20	2nd men 35-39
Ron Wittlock	39.67	2nd men 50-54
Peter Cameron	42.95	3rd men 40-44

100-meter Backstroke

Ron Wittlock	1:31.77	1st men 50-54

200-meter Backstroke

Ron Wittlock	3:16.76	1st men 50-54

50-meter Breaststroke

Wlodek Guryn	41.00	1st men 35-39

100-meter Breaststroke

Peter Cameron	1:33.90	2nd men 40-44

100-meter Individual Medley

Wlodek Guryn	1:16.52	1st men 35-39
Peter Heotis	1:16.97	2nd men 35-39
Marsha Belford	1:46.07	3rd women 30-34

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.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

2752. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent experience and a broad knowledge of Laboratory policies and procedures. Will provide varied secretarial support including typing technical manuscripts on MICOM word processor, correspondence and maintaining files. Chemistry Department.

2753. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent experience and a broad knowledge of Laboratory policies and procedures. Responsibilities will include typing of correspondence, processing of research proposals, material requisitions and file maintenance. Ability to take shorthand and MICOM word processing experience essential. Budget Office.

2754. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent and a broad knowledge of Laboratory policies and procedures. Will provide varied secretarial support to Solid State Theory Group. Requires excellent word processing (MICOM) skills. Previous PC experience using TeX helpful. Responsibilities will include technical typing and correspondence, foreign and domestic travel arrangements/reimbursement, group file maintenance, conference coordination and heavy telephones. Physics Department.

2755. AUTO-TRUCK MECHANIC - Under minimum supervision, performs required repairs, maintenance, servicing and incidental operation of gasoline and diesel engine driven vehicles such as automobiles, trucks, trailers and material handling equipment. Performs limited welding, brazing and painting and other body and fender repair work in order to maintain vehicles in operating order. Staff Services Division.

2756. TOWERLINE PERSON - Plant Engineering Division.

2757. TELEPHONE OPERATOR - (Temporary - "as needed") will be trained in the operation of GTE telephone console. Rotating day shifts. Applied Mathematics Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2758. MAIN CONTROL ROOM OPERATOR - Requires BS in physics and electrical engineering, experience in computer programming and good communication skills. Will be involved in the operation and troubleshooting of the AGS accelerator complex for the experimental physics program. Background in computer controls, high power pulsed power supplies and digital electronics desirable. Rotating shift work. Alternating Gradient Synchrotron Department.

2759. MEDICAL ASSOCIATE POSITION - Requires BS in chemistry or equivalent, experience with nuclear measurement equipment and mechanical aptitude. Duties will include lab maintenance, design of processing apparatus and assistance in the development of new isotopes. Responsibilities include remote radiochemical separations and analysis of radionuclides for medical research. Medical Department.

2760. PROGRAMMING/ANALYST POSITION - Requires BS degree in an appropriate field and several years' experience in various aspects of system design and programming. Working knowledge of HP-3000 hardware and experience with IMAGE, V/3000, KSAM and MPE very desirable. The ability to work with others in a project/team environment and excellent communication skills are necessary. Will design, code and document business applications of HP-3000 and work closely with persons involved in ultimate use of these applications. Management Information Systems Division.

2761. TECHNICAL POSITION - Requires a BSET degree or an AAS degree in electronic technology with a minimum of two years experience in the fabrication and repair of high power RF equipment. Must be able to use various test equipment and work from schematics, drawings, rough sketches as well as from verbal instructions. Position involves the fabrication, testing, repair, and maintenance of high power RF amplifier control systems at circuit and system level. National Synchrotron Light Source Department.

2762. TECHNICAL POSITION - Requires a BSET degree or an AAS degree in electronic technology with a minimum of two years experience. Must be able to use various test equipment and work from schematics, drawings, rough sketches as well as from verbal instructions. Position involves the fabrication, testing, repair, and maintenance of electromechanical personnel safety interlock systems, and motor positioning systems. Also requires the ability to troubleshoot and repair digital and analog electronic assemblies. National Synchrotron Light Source Department.

Motor Vehicles & Supplies

86 SUZUKI SCOOTER - excel. cond., $300. 821-0250.

86 NOVA - burgundy, a/t, a/c, p/s, 14k mi., mint cond. 654-4670.

78 CONCORD - 4 dr., a/t, p/s, low mi., am/fm cass., 6 cyl., good cond., $950. Ext. 4638 or 281-0360 eves.

57 CHEVY CONVERTIBLE PARTS - reasonable prices. Steve, Ext. 4678 or 928-5291.

84 PONTIAC FIERO - red w/grey int., 4 speed, gold Eneke rims, excel., must sell, $4,800 neg. Pat, 246-5809.

75 FORD - 4 dr., good cond., $300. Ext. 7699 or 821-1435 eves.

71 VW BUG - reconditioned cylinder heads, new Weber carb. & assorted studs, all $100. Fred, Ext. 4407/4435.

86 NISSAN PULSAR NX - two-tone, a/t, a/c, sunroof, low mi., garaged, clean, $8,200. Bert, Ext. 2050.

65 MUSTANG - hardtop, a/t, orig. owner and papers, many extras, excel. in/out, $3,000. 929-4701.

74 INTERNATIONAL TRAVELALL - 4wd, 392 V8, tow package, needs brakes, asking $750. Mike,. Ext. 3277 or 281-7485.

SEARS CAR RAMP - heavy-duty, detaches from stand for easy access, $12. 751-0345.

TRUCK TIRES - 4, w/rims, Good Year Wrangler, LT215/85/RIG M&S, like new, $200. Ext. 4312.

86 CAMARO - red w/black int., V6, 44k mi., loaded, Kenwood stereo system, $7,500. 727-3673.

84 CHRYSLER LASER - a/t, a/c, excel., must see, $4,200. Ext. 2446 or 924-1911 eves.

85 JETTA GL - a/t, a/c, am/fm cass., 58k mi., $5,500. Ext. 7264 or 283-7716 eves.

EXHAUST MANIFOLD - for Toyota 20R engine, like new, $50. Mike, Ext. 4100.

79 HONDA CIVIC - 85k mi., some new parts, good tires, runs well, $700. Pete, Ext. 4100.

75 PLYMOUTH FURY - 110k mi., good engine & tires, rebuilt transmission, $250. Ext. 2530 or 864-3683 eves.

74 CAMARO LT - 350, 4 speed, 10 bolt posi, body & engine excel., $3,000 neg. 473-7460.

75 FORD - 8 cyl., p/s, p/b, a/c, cass., new tires, very good mechanically, $750 neg. Barbara, Ext. 5165.

80 PLYMOUTH ARROW PICKUP - ½ ton, 41k mi., 2000cc, 4 speed, w/cap, w/w tires, new exhaust system, $2,300. 363-6411.

87 BUICK REGAL - a/c, p/s, p/b, am/fm, asking $12,500; 83 Renault Alliance, a/t, body good, needs motor, asking $2,000. Luis, Ext. 7527.

78 PONTIAC GRAND PRIX - 8 cyl., 301 engine, 84k mi. Ext. 2314 or 567-5131.

68 CHEVY NOVA - 6 cyl., runs well, $200. 929-3209 after 5 p.m. & wknds.,

13" CHEVY BUICK WHEEL - regular size, good, $30. Lou, 281-5532.

81 JEEP WAGONEER - 84k mi., full power, V8, clean, new exhaust, brakes, $4,500 neg. Ext. 7686 or 878-0897.

78 CHEVY MONZA - hatchback, 4 speed, $350 neg. 874-3796.

VW BUG PARTS - 4 fenders, engine hood w/plate light, 5 rims & tires, rear window w/defrost., side windows, extras, $25 all. Ray, Ext. 3536 or 289-7615.

79 TOYOTA CELICA - 5 spd., 108k mi., good eng., tires, new brakes, am/fm, p/s, m/t, $1,495 neg. Ext. 2183 days; Ext. 2520 eves., ask for John in #27.

75 DODGE COLT - red, runs well, new brakes, best offer. Ext. 4006.

81 COUGAR XR-7 - new 318 V8, exhaust, tires, p/s, p/b, a/c, more, excel., $4,000. Ellen, Ext. 2816.

76 PLYMOUTH VOLARE WAGON - good cond., $500. 473-4043.

82 DATSUN 200SX - 5 speed, a/c, SL package, 99k mi., excel. cond., asking $2,800. John, Ext. 7770/4480.

66 LINCOLN CONTINENTAL - classic, full power, very good cond., 41k mi. 924-4193.

TIRES - 4, S/B 195-75-14, like new, $60. Dick, Ext. 4289 or 878-2421.

79 CHEVY - 9 passenger SW, p/s, p/b, a/c, cruise, trailer package, excel., $2,000. Ext. 2698 or 928-5796.

77 CHRYSLER CORDOBA - 400 cu. in., new computer, good tires, asking $300. Ron, Ext. 3499.

77 CADILLAC SEDAN DEVILLE - white w/red leather int., high mi., new tires, excel. cond., $2,700. Ext. 4040 or 289-0876.

Boats & Marine Supplies

22' SEAFARER SAILBOAT - 1974, 3 sails, Volvo outboard, full keel, wet storage, orig. $4,000. Fred, Ext. 4407/4435 or 499-1214.

OUTBOARD MOTOR - Sears Gamefisher, 7.5 h.p., $250. Marty, Ext. 3843.

Miscellaneous

IBM TYPEWRITER - electric, good cond., $150; wallpaper, 5 rolls, $20; Carousel Kodak projector lens, 102mm, 4", $10. Susan, Ext. 4267.

HUMIDIFIER - Edison, wood grain console, 4 gallon, $40; kitchen set, table w/leaf, 4 chairs, $50. Tony, 698-9274.

HUMIDIFIER - Hankscraft Wisper Mist, $50. 363-2070 eves.

CONVERTIBLE SOFA - 72", dark red, good cond., comfortable, $50. 722-8176.

KEROSENE HEATER - 9400 Btu, w/5 gallon can of fuel, good cond., $65; screens & windows, 14 each, good cond., $50. Ext. 3794.

IBM SOFTWARE - pop-up calendar/alarm clock, $10; Mura stereo headphone, $6; workbench chair, adjustable, $25. 744-5871 after 6 p.m.

BEDROOM SET - boy's, solid wood, dresser w/mirror, headboard w/frame, night table, $125. Ext. 2888 or 286-0422.

CASTRO CONVERTIBLE COUCH - beige/brown plaid, 7', excel., like new, $300. Maria, 924-3756.

TV SETS - 2, 9" & 12", $5/each. Lou, 281-5532.

PHOTO ENLARGER - & dark room equipment; outdoor gas grill w/tank. 363-6411.

BABY COMBO - stroller/highchair/car seat/rocker, crome, $100. Ken, 878-1698.

MAN'S BICYCLE - 3 speed, Royce-Union, brand-new, blue, orig. $90, sell for $50. 874-3796.

HOMELITE CHAIN SAW - automatic, $30. 744-6423.

PUNCH PRESS - Standard Mach'y, #2B, kick operated, $100. F. Paffrath, Ext. 4407.

PANASONIC BMX-500 BIKE - very good cond., $65. 581-7656.

STEREO CASSETTE DECK - Sharpe, #RT-10/10BK, Dolby. 821-0865.

TABLE LAMPS - 2, gold color, 33" high, 3-way light switches, $15/each, $25/both. Joe, Ext. 2898.

TAPE DECK - Tandberg, 7", reel-to-reel, w/30 tapes, $150. Augie, Ext. 3884.

RABBITS - dwarf & regular, outdoor raised, $6. John, Ext. 3675 or 924-3528.

GAS RANGE - 30", white, good cond., $50. Ext. 2333 or 281-3479 after 5 p.m.

FIREPLACE - free-standing, black, open front w/screen, $75. Bert, Ext. 2050.

SLICING MACHINE - Hobart, built-in sharpener, excel. cond., $225. Joe Bush, Ext. 4638 or beeper #572.

BLACK & WHITE TV - large, w/stand & adapter, $20. Joan Frye, Ext. 3005 after 6 p.m.

ROLLER SKATES - white, size 4, new, $18. G. Williams, Ext. 3338.

DRAFTING MACHINE - elbow type; drafting table, 42"x72", steel, hardwood top, 2 storage drawers, electrical outlets, vinyl cover. Ext. 2274.

CONVERTIBLE COUCH - light brown, like new, orig. $275, sell for $75. Ext. 4144 or 472-1518.

MATTRESS & BOX SPRING - twin size, excel. cond., $125. Steve, Ext. 7862.

SKI BOOTS - woman's size 7, Heierling, excel. cond., $45. 751-8403 after 6 p.m.

FARBERWARE CONVECTION OVEN - man's skis, 205 cm, 200 cm, 10 med. boots; woman's skis, 185 cm, 7&8 boots. 475-0509.

IBM ELECTRIC TYPEWRITER - fully operational, $50. Tim, Ext. 2432.

CRIB & MATTRESS - like new, $45; iron, $10. Chris, Ext. 3191.

SKI BOOTS - Dolomite, woman's size 7, $20; Fischer skis, 150 cm, $10. L. Kukacka, Ext. 3065 or 473-1157.

GIRL'S BIKE - 26", $30; hockey skates, size 8, $3. I. Meyer, 929-4326.

KEROSENE HEATER - Kero Sun Omni 15, portable, 1.7 gallon tank capacity, like new, $80. 289-1732 after 6 p.m.

CLUB ALUMINUM POT - 9 quart, $8; 4½ qt. club alum. pot, $5; workshop table, sturdy, $8; machinist's service cart, $30. 878-6637.

TV-ROOM SET - couch, loveseat, recliner, 2 end tables, coffee table, wood frame, $130. 878-2421.

DITTO COPYING MACHINE - cabinet, fluid, mounting base & cover, excel. cond. Frank, Ext. 3120.

KEROSENE HEATER - w/electric blower, new wick, like new, $85; ceiling heater & exhaust fan for bathroom, never used, $45. 751-0345.

Free

GUINEA PIG - 1 year old, lovable, needs loving care. Ext. 3426.

CLEAN FILL - you pick up. Augie, Ext. 3884.

Lost & Found

LOST - small brooch, rectangular, antique, garnets, at or near swimming pool area. Liz, Ext. 2346.

FOUND - green tinted sun glasses, corner by Bldg. 480. Anne, Ext. 3084.

Car Pools

STONY BROOK - van needs riders. Sid, Ext. 4125, or Paul, Ext. 2476.

MORICHES - want to join car pool. Dick Hahn, Ext. 4337 or 874-2830.

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

RIDGE - room in 4 bdrm. house, share w/3 males, 5 min. to Lab, avail. Feb. 1, $225/mo. + util. David, Ext. 3406.

BROOKHAVEN HAMLET - room in 4 bdrm. house, share w/2 professionals, 2 baths, spacious, ¾ wooded acre, $350/incl. all. Randy, Ext. 3835.

CATSKILLS - 3 bdrm. chalet w/sleeping loft, fully furn., great skiing, near Hunter & Windham Mtns., will rent day/week/wknds. Kay, Ext. 4501, or Bea, Ext. 3642.

HILTON HEAD, SC - 2 bdrm. condo, sleeps 6, golf, tennis, beach, pool, winter rates, $250/wk. 585-9149.

MASTIC - room in 3 bdrm. house, l/r, den, d/r, eik, bath, laundry rm., fenced yard, clean, fully alarmed, 10 min. to Lab, non-smoker preferred, $400/mo. + ½ util. Ext. 5110 or 399-3087.

CATSKILLS - Gilboa, 2 bdrm. chalet, sleeps 6, fully furn., deck, private, close to Deer Run, Windham & Hunter Mtns., 4wd vehicle needed, avail. week/wknd/month. Ted, 928-1445 after 6 p.m.

For Sale

RIVERHEAD - adult park (over 55), on Peconic River, 2 bdrm. mobile home, 12x60, 1½ baths, wood-burning stove, new carpeting & floors, asking $40,000. 369-2838.

SHIRLEY - 4 bdrm. cape, brand-new, full bsmt., 100x150, $127,000. 736-3899.

MILLER PLACE - north of 25A, 3 bdrm. custom ranch, entertainment area, l/r, family rm., custom f/p, 24'x26' 2-car garage, finished bsmt., more. Ext. 3353 or 473-5786.

Wanted

SNOW TIRES - for 14" rims. Ken, Ext. 3263 or 722-4498.

SKIING EQUIPMENT - used, children's 4, 8 & 14 year old. Ext. 2957 after 6 p.m. & wknds.

SKIERS - to ski Whiteface Mt., March 11-13. Bea, Ext. 3642.

CHILD CARE - Mon. & Wed., 8 a.m.-6 p.m., my home, own transportation, Center Moriches, $4/hour. 874-3693.

TRAINS - Lionel, American Flyer, accessories, any cond., brings good price. Carole, Ext. 7100 or 924-4097 eves.

SKI POLES - for Boy Scout snowshoeing. John, Ext. 3675.

MINERALS - mineral collections & mineral books (old editions). Plotkin, 798-2887.

TRAINS - Lionel, any "0" gauge or "027" gauge cars, track and equipment. Frank, Ext. 3120.

Services

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

RUG SHAMPOOING - very reasonable, Lab discount. 924-6019, leave message.

JEWELRY REPAIR - gold & silver rings, chains, etc. Dan, Ext. 2319.

CALLIGRAPHY - for all occasions, envelopes, invitations, place cards, etc. Andrea, 821-0260.

CHILD CARE - my home, Farmingville, county certified. 732-9324 after 6 p.m.

ROOF REPAIRS - re-roofing, free estimate, licensed & insured, Lab discount. 732-4679.

BRICKWORK - patios, walks, swimming pools, Belgian block, landscape ties, 20 years experience, Lab discount. Tony, 698-9274.

GENERAL CONTRACTOR - home imp., dormers, extensions, siding, shelves, kitchen & bath alterations, design, licensed & insured. 475-6981.

WORD PROCESSING - typing, etc. Carrie, Ext. 4207 or 653-9514.

TREE STUMP GRINDING - Bob, Ext. 4434 or 727-2346.

INSTALLING SKY LIGHTS - free estimate. John, Ext. 2259.

In Appreciation

We wish to thank our co-workers and friends for their kind expressions of sympathy during our time of sorrow. They were a source of great comfort and were much appreciated.

— Jack and Ruby Fajer

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