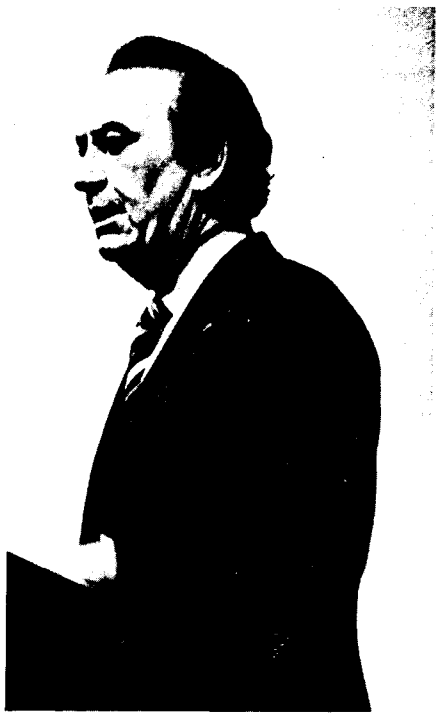
BROOKHAVEN BULLETIN
Vol. 35 - No. 37 September 25, 1981
BROOKHAVEN NATIONAL LABORATORY



N.Y. Governor Hugh Carey spoke to hundreds of BNL employees in Berkner Hall, and through a television hookup in Room B, about the transfer of upstate power to the Lab. He praised BNL as "the nation's finest research and development facility."

PASNY Power On Its Way To BNL

Governor Hugh L. Carey was the bearer of good news when he announced to an overflow audience at Berkner Hall on Monday that the Power Authority of the State of New York (PASNY) would provide up to 30 megawatts of power to BNL, at an annual savings of about $6 million to the Laboratory. The cheaper electricity will also result in helping to save the jobs of up to 200 employees.

"There couldn't be a better way to show our respect for the importance of the work done here," said the New York Governor. "You who labor here so hard and so imaginatively have a long tradition of scientific successes, but continuing that tradition will have to come in the face of ever-increasing economic challenges." He said that the state was helping Brookhaven to meet one of those challenges, namely, the high cost of energy. Carey assured the audience of his awareness and appreciation of the Lab's contributions to the economy of L.I. and the state.

John S. Dyson, chairman of the New York State Power Authority, joined Governor Carey in making the announcement. He said that "Brookhaven is a treasured scientific resource," and added that "those who cut the budget for science, are, I think, eating our seed corn."

The power for Brookhaven will be supplied by the James A. FitzPatrick Nuclear Plant which was built by the Power Authority in 1975 near Oswego. The first allocation of 16 megawatts will be available to Brookhaven on October 1, and is from an allocation provided to the Aluminum Company of America (ALCOA), Massena, N.Y. ALCOA has agreed to a reduced allocation because it does not now require the power for its operations. Negotiations are under way for additional megawatts to be "wheeled down" to Brookhaven from other upstate industrial users.

Power from the 810 megawatt FitzPatrick Nuclear Plant will be substantially cheaper than oil-fired power. For FY82 Brookhaven expected to pay 8.4¢ per kwh, but the upstate electricity will cost only about half that amount.

The power will be transmitted to Brookhaven through three private utilities — the Niagara Mohawk Power Corp., the Consolidated Edison Co. and LILCO. The Lab uses an average of 27 megawatts of electric power, with peak demands of up to 45 megawatts. LILCO will continue to supply the remainder of the Lab's requirements. Although Brookhaven has been one of LILCO's largest single customers, the Lab consumed less than one percent of the utility's total output.

BNL Director George Vineyard said PASNY's decision and the Governor's praise of Brookhaven's research was "music to my ears." He also noted with thanks the support given to the power allocation decision by scientific, educational, business, labor and government leaders.

The recently concluded negotiations on the purchase of PASNY power were initiated in March when Dr. Vineyard wrote to Governor Carey pointing out the Laboratory's need for the state-produced power, after the groundwork had been laid three years ago by Vincent O'Leary. The current plan for seeking this power and much of the work in advancing the plan was done by Martin Blume, Warren Winsche and O'Leary. All three also spent considerable time in a series of conferences with PASNY and other state officials. Al Mahlmann, Plant Engineering, assisted in developing the arguments for the power transfer.

Brookhaven's economic woes stem both from a reduced operating and construction budget, and from accelerating electricity costs. The budget is currently $197.7 million and is expected to be about $186 million for FY 1982, unless further cuts are made by President Reagan. Before the provision of PASNY power, BNL's electric costs had been anticipated to soar to $18 million in FY82 from $12 million during FY81.

About two-thirds of the Lab's electricity is used by its major research machines. In FY81, the electric bill for the AGS alone was $6.5 million. Because of ever increasing energy costs, up-time at the AGS has been on the decrease for several years. In 1978, the accelerator ran for 36 weeks, but is expected to run for only 21 weeks in 1982.

PASNY is the nation's largest non-federal public power organization. Established in 1931, it operates six generating plants with a combined capability of more than 6.7 million kilowatts. About one-third of the electricity consumed in New York State is produced at these plants, or imported from Quebec. PASNY sells electricity to all 51 of the state's municipal electric systems and rural cooperatives, to public agencies in the New York Metropolitan area, to the state's seven major private utilities for resale to their customers without profit, and to designated industries.

PASNY chairman John Dyson (2nd from left) answers questions at a press conference following the ceremony. With him is Governor Carey and, at right, Lab Director George Vineyard and Associate Director Martin Blume.

Governor and Mrs. Carey, with AUI President Robert Hughes, paused before an exhibit of BNL research.

—photos by Humphrey

Scientists Meet On Protein Sequencing

Doug Humphrey

BNL's Marshall Elzinga (left), organizer of the IV International Conference on Methods in Protein Sequence Analysis held at the Lab this week, meets with some of the participants-Russell Doolittle, University of California at San Diego; Richard Laursen, Boston University; and B. Wittmann-Liebold, Max Planck Institute for Molecular Genetics in West Germany.

There are just a few sets of chemical building blocks that living things use to assemble themselves, and the way the blocks are put together determines whether we become men or mice.

Amino acids are one type of building block. There are 20 different, yet closely related, amino acids, and they are joined together (polymerized) within cells to make proteins and peptides. Well known examples of proteins are hemoglobin and the enzymes that digest our food, while familiar peptides are insulin, important for sugar metabolism, and growth hormone, which is made in the brain and determines how large we become.

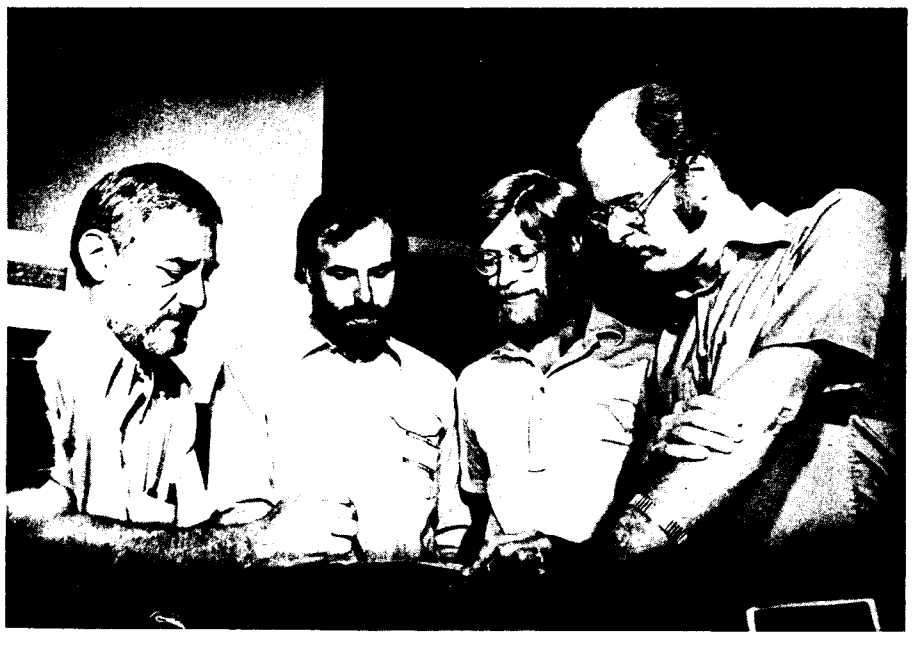
A typical protein is a polymer of about 150 amino acid units; it resembles a string of beads which is folded into a globule shaped something like a football. The linear order in which the amino acids are arranged is called the amino acid sequence of the protein. The sequence determines the exact shape and function of each protein, and figuring out the sequences of the thousands of different proteins and peptides that exist in any living cell is one of the major analytical tasks of biochemists.

The methods by which this is done is the subject of a week-long conference concluding today at Brookhaven. It is the IV International Conference on Methods in Protein Sequence Analysis, and it drew about 175 scientists from Europe, Asia, Africa, and North America.

Protein sequencing requires two types of operation: fragmentation of the protein and separation of the pieces, and a repetitive chemical reaction carried out on the isolated pieces that identifies one amino acid at each step.

Various facets of these operations were discussed by 35 speakers, including Richard Laursen of Boston University, who presented recent developments in high performance liquid chromatography, and B. Wittmann-Liebold from the Max Planck Institute for Molecular Genetics in Berlin, who described new sequencing reagents and the current status of protein sequencing. A general lecture entitled "An Anecdotal Account of the History of Peptide Stepwise Degradation Procedures" was presented on Wednesday evening by Russell Doolittle of the University of California, San Diego.

Solid State Workshop



Mort Rosen

On September 14 and 15, approximately 50 scientists from the U.S. and abroad met at BNL for an informal slow-positron workshop. Organized by Allen Goland and Kelvin Lynn, Particle-Solid Interactions Group in the Physics Department, the workshop brought together scientists currently using slow positrons to study matter and those who plan to enter the field. As the physics of producing intense sources of low-energy nearly-monoenergetic positrons has become understood, slow-positron research has been growing rapidly. Beams of slow positrons are being used in studies of gas scattering, atomic physics and, at Brookhaven especially, in studies of surface, near surface and interface phenomena. Above, Allen Goland (left) and Kelvin Lynn, talk with two of the invited speakers, Allen P. Mills, Jr., Bell Labs and Karl Canter, Brandeis University. Although written manuscripts were not requested of the speakers, ample time for private discussions was provided so that participants were able to carry back to their home institutions a great deal of useful new information.

Patents Awarded

Russell N. Dietz and Gunnar I. Senum, Department of Energy and Environment, were awarded U.S. Patent No. 4,256,038 for developing a method of tagging an explosive by enclosing perfluorocarbon in blasting caps. The perfluorocarbon is dissolved in elastomers which are used as plugs to seal blasting caps. It is released as a vapor into the ambient air over a long period of time, serving as a detectable taggant. This technique is a good substitute for physical searches, X-rays, and dogs trained to sniff out certain explosive materials. It also improves upon a prior invention by Dietz *et al.*, described in U.S. Patent No. 3,991,680, which used sulfur hexafluoride vapor absorbed in a fluoropolymer, a method limited by major disadvantages. Sulfur hexafluoride vapor is present in ambient air in readily detectable amounts, and it is also used to a large extent by commercial and industrial processes.

U.S. Patent No. 4,264,816 was issued to **Albert H. Walenta,** Instrumentation Division, for developing an improved ionization chamber for detecting radiation emitted by radioactive material. The chamber is arranged to contain a suitable gas so that upon exposure to radiation, ionized electrons are produced which drift at a relatively low speed toward the detection region and are then accelerated and detected as in a proportional counter. Relatively simple to construct and made out of readily available materials, the chamber nevertheless provides significantly high measurement sensitivity and resolution. It can also be operated in many modes to enable detection of a number of ionization clusters or single electrons which are produced by ionizing radiation passing in any of a number of directions relative to the chamber electrodes, so that various properties concerning the particle can be determined.

Employee Tour Of Testing Lab

Because of the interest generated by last week's Bulletin story about BNL's research on home heating oil units, the laboratory where such units are monitored for efficiency will be opened to a limited number of employees for a tour on Wednesday, September 30, from 5 to 6 p.m. Tour reservations will be taken for the first 24 employees who call Public Relations, Ext. 2345. If need be, an additional tour will be scheduled for the following week.

Engineer Dick Krajewski will be on hand to answer questions during the tour.

Equipment Demo

Tektronix will present the new TM5000 line of programmable instruments, the DAS 9100 Logic Analyzer, the 4054 Graphics Display Terminal with Dynamic Graphics, microprocessor development systems and Tektronix oscilloscopes, at Berkner Hall, Room C, on September 28, from 9 a.m. to 4:30 p.m.

CREF Values

April	$41.82	May	$43.70
June	44.81	July	47.84
August	48.04	September	48.75
October	49.13	November	53.19
December	51.77	January	50.20
February	51.21	March	52.85
April	52.39	May	52.56
June	51.94	July	$51.19

August $48.26

Isabella Karle To Lecture at BNL

Dr. Isabella Karle of the Naval Research Laboratory, Washington, D.C., will discuss "Toxins, Ion Carriers, and Crystallography" at a seminar sponsored by Women-In-Science, Monday, October 5, at 3:30 p.m. in the Hamilton Seminar Room (Chemistry). Her talk will focus on the cyclic polypeptides, which have a variety of physiological effects, both toxic and beneficial.

Dr. Karle and her husband, Jerome Karle, developed the mode of crystal structure determination known as direct methods, which has revolutionized crystallography in the last twenty years. In recognition of her work she has been the recipient of the Federal Woman's Award, the ACS Garvan Medal and two honorary D.Sc.'s. She also served as president of the American Crystallographic Association in 1976 and is a member of the National Academy of Sciences.

A buffet dinner open to all will be served at 6:15 p.m. in the Brookhaven Center. Reservations may be made by calling Ext. 3541. The price is $5.75.

Isabella Karle

Women In Science

Women in Science will meet on Thursday, October 1, at noon in Room A of Berkner Hall. We will vote for officers for fiscal year 1982.

At the meeting, Diane Stassi, Biology Department, will speak on "Cloning Chromosomal Genes of Pneumococcus." Bring your lunch.

Computer Course

A course entitled "Introduction To Structured Programming With Fortran 5" is schedued to begin on Monday, October 12. Classes will meet on Mondays and Wednesdays for eight weeks. The course is designed to introduce structured problem solving techniques using the FORTRAN 5 programming language and computers at the Central Scientific Computing Facility. No previous knowledge of programming or familiarity with computers is required.

The course will be given in the Large Physics Seminar Room, Building 510, from 10:30 a.m. until 12 p.m. For more information and to register for the course, refer to the October, 1981 CSCF Newsletter or call R. Wittlock at Ext. 4112.

Oops!

Last week's story on "Coping With The Fuel Oil Crisis" requires correction: Frank Salzano is head of the Division of Energy Storage and Conversion. In the article, the word Conservation was inadvertently substituted for Conversion.

BROOKHAVEN BULLETIN

Published weekly
for the employees of
BROOKHAVEN NATIONAL LABORATORY

BERNICE PETERSEN, Editor
MONA S. ROWE, Assistant Editor
ANITA COHEN, Reporter

35 BROOKHAVEN AVE., UPTON, N.Y. 11973
Telephone (516)282-2345

Golf

Thirty-three golfers participated in the fifth BGA tournament. The event was run as a four man scramble team match at the Riverhead Golf Course on September 14. Lowest scores of 67 were turned in by two teams: John Millener's crew of Tom Romano, Tony Baltz, and Frank Lepera; and Peter Bond's squad of Joe De Pace, Eldon Schmidt, and John Nagy.

An additional highlight of the tournament was Ron Webster's hole-in-one on the wind-blown par 3 with a knock-down 5 wood shot.

The final BGA tournament will be held at Harbor Hills Golf Course in Port Jefferson. The date is Thursday, October 8; the greens fee is $9. Tee off times can be arranged through Bob Glasmann at Ext. 5018.

Bringing In Plants

When night temperatures dip into the 50s, the Cooperative Extension Association recommends bringing houseplants back indoors. Most houseplants originated in the tropics, so temperatures in the 40s and 50s can harm them. A frost, of course, would kill most plants outright.

Before carrying plants indoors, check them closely for insects and signs of disease. Sometimes washing plants with a gentle spray from the garden hose or with warm, soapy water will clear up insect problems. Stubborn infestations call for chemical controls. Severely infested or heavily diseased plants should probably be discarded. Unless a plant has special value, it's usually better to replace it than to risk spreading its problem.

Many houseplants grow like weeds when they're outdoors for the summer, and some may have outgrown their containers. Repot those plants that need it before taking them indoors.

Once they're inside, set plants in a sunny widow or place them under artificial light. Don't be alarmed if, after a while in the house, some plants drop quite a few leaves. That's a common reaction to reduced light levels and the dry, heated air of the indoor environment.

More Net Pay

As a result of the Economic Recovery Tax Act of 1981, new Federal withholding tables have been issued which reflect the 5% reduction in withholding rates as provided by the Act. The reduction will show up in the net pay of weekly employees on October 1, of monthly employees on October 31, and will continue through June 30, 1982.

Att: Women

Breast cancer affects one out of 14 women in the United States today. It can occasionally occur in men, but this is infrequent.

The specific causes of breast cancer are unkown, but it appears to be a disease that depends upon an interrelationship among a number of factors: age, previous history of breast cancer, heredity, reproductive history, hormonal balance, and possibly other factors.

A critical defense in the fight against breast cancer is education of the public regarding the importance of early detection and treatment. Early detection of breast cancer is best done by a combination of *monthl* breast self examinations and periodic physical examinations. Approximately 90% of breast cancers are discovered by self examination.

In the clinic, personnel can teach you breast self examination, and pamphlets are available that describe the technique. If a self exam reveals any changes or abnormalities in the breasts, medical attention should be sought immediately. In certain cases, mammography (special X-rays of the breasts) can be useful in screening for cancer or investigating abnormal signs or symptoms in the breast.

You may not be able to prevent breast cancer, but *early detection*, diagnosis, and treatment may prevent the serious consequences of the disease.

— Caroline Kramer, R.N.
Occupational Clinic

Arrivals & Departures

Arrivals

Roger G. Carr ..... Chemistry
Juan Castillo ..... Central Shops
Mati Meron ..... Physics
Collen E. Shea ..... Nuclear Energy
Pauline D. Smith ..... Saf. & Env. Prot.
Minh D. Tran ..... Physics
Walter Weirshousky .... Central Shops

Departures

This list includes all employees who have terminated from the Laboratory, inlcuding retireees:

Julius J. Diener ..... Physics
Betty P. Kwan ..... Physics
James M. Loman ..... Physics
Yona Siderer ..... Biology

BERA Participation Awards

The BERA Executive Board recently established two new rulings pertaining to BERA participation award cards. They are: 1) After December 31, 1981, all participation award cards issued **prior to January 1, 1978** will no longer be valid for redemption. 2) All cards awarded thereafter will be valid for five years only. For example, a card awarded any time in 1978 is valid through December 31, 1982.

The following redemption procedures remain in effect:

- Participation cards are not transferable.
- Participation cards have an established value (presently $2) and, similarly, merchandise items are price tagged. Card value and merchandise prices are subject to change commensurate with vendor's price increases.
- Participation cards are redeemable at the BERA Sales Office by presenting enough cards, or a combination of cards and cash, to meet the tagged price of the item.
- A minimum of one participation card is required for each redemption.

Merchandise Items Price List

	Present	Eff. 10/1/81
V-Neck Sweater	$8.00	$10.00
Crew-Neck Sweatshirt	8.00	10.00
Hooded Sweatshirt	8.00	10.00
Windbreaker	10.00	12.00

Semester Students

Doug Humphrey

Five students recently arrived at the Lab for the fall Brookhaven Semester Program. From left, they are Tina Marie Holden, Prairie View; Franklin Winters, Tougaloo; Shirley Jefferson, Prairie View; Daphne Coleman, Prairie View; and William (Kevin) Carson, Norfolk State. This 27th semester of the program, the students will be studying linear algebra and statistics with Walter Sevian, DEE; scientific computing with Ronald Wittlock, Applied Math Department; and physics with Brant Johnson and Walter Kane, Physics Department. The Semester Program offers to undergraduate students educational opportunities that may not be available at their home campuses.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, October 7. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is $3.50, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than Thursday, October 1. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you on the train. Refunds will be made only if cancellations are received by the Friday preceding the scheduled trip.

Mountain Club

Everyone is invited to a going-away salute to the Crowthers and Harold Upseth at 5:30 p.m. on Tuesday, September 29, in the Brookhaven Center. Because of Harold's departure, Pat Thompson, Ext. 7635, was chosen as the new Club president.

Cafeteria Menu

Week Ending October 2, 1981

Monday, September 28

Lentil soup	(cup)	.55
	(bowl)	.65
Meatballs a'la mode over noodles.		1.60
Cheese omelet w/hash browns		1.55
Hot Deli: Knockwurst	(on bread)	1.60
	(on roll)	1.70

Tuesday, September 29

Pork and cabbage soup	(cup)	.55
	(bowl)	.65
Beef liver & onions w/one veg.		1.55
Turkey a'la king over rice		1.65
Hot Deli: Roast top round of beef	(on bread)	1.65
	(on roll)	1.75

Wednesday, September 30

Turkey gumbo soup	(cup)	.55
	(bowl)	.65
Macaroni and cheese		1.55
Roast chicken quarter w/one veg.		1.55
Hot Deli: Meatball hero		1.70

Thursday, October 1

Cream of celery	(cup)	.55
	(bowl)	.65
Salisbury steak w/one veg.		1.60
Chinese pepper steak over rice		1.65
Hot Deli: Corned beef	(on bread)	1.65
	(on roll)	1.75

Friday, October 2

New England clam chowder	(cup)	.55
	(bowl)	.65
Filet of fish w/one veg.		1.55
Chicken cacciatore w/spaghetti		1.55
Hot Deli: Barbequed beef	(on bread)	1.65
	(on roll)	1.75

Volleyball

There will be a Captains meeting for all of last season's teams at noon in Berkner Hall, Room C, on October 7. Anyone interested in the Players Pool should contact Dennis Weygand for the Open League, Ext. 3737, or Don Litcher for the Mixed League, Ext. 7587.

Motorcycle Club

A family picnic will be held on Saturday, September 26. Bring your bike, the family, and your own brown bag lunches and meet at noon in the ballfield past the fire house. Plan-it-yourself field events are welcome.

Karate

Every Friday evening at 7, karate enthusiasts of all ages and levels meet in the gymnasium for classes organized by the Karate Club. Classes are open to employees and their immediate family members at a cost of $15 a month for each student. Prospective joiners may contact Whitey Caiazza at Ext. 2913, or come to a Friday session. Spectators are always welcome.

The form of karate taught is called Kempo Tae Kwon-Do, which was originated by Master Ed Gross, 10th Degree Black Belt. The Friday night instructor at BNL is Dan Joe Garcia, 2nd Degree Black Belt. Joe has been in the martial arts since 1965. While in the U.S. Air Force, he studied in Thailand for two years, and after returning to the U.S. continued his studies under two other black belt instructors. He is presently under the tutelage of Master Ed Gross, and is also a member of the New York Demonstration Team. For those interested, the team is scheduled to perform at the Smithtown Sheraton Inn on October 18.

There's a new face on the "Wanted" list down at the post office. Some poor devil who mailed an undersized envelope.

•

Automation is man's effort to make work so easy that women can do it all.

•

You know you're getting old when you can make the wrinkles that you see in the mirror disappear just by taking off your glasses.

•

Over a fabric display: "Sew what's new."

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.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex or handicap.

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, 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: Opportunities for present Laboratory employees.

1634. CLERICAL POSITION - Will provide a variety of clerical function for other secretarial staff. Excellent typing skills are required and knowledge of word processing highly desirable. Department of Energy & Environment.

Autos & Auto Supplies

72 SERVICE MANUAL - Ford truck, pickup & larger; 1978 Service Manual for Dodge Motor home or trucks. Leo, Ext. 3498.

81 FORD FAIRMONT - 9,000 mi, p/s, p/b, 4 cyl, std, am/fm stereo, excel cond. $5,500. 924-4398 after 6 p.m.

66 CHEVY PICKUP - 283 cu in., 4 spd, p/s, p/b, 8 ft box, good cond. $1,300. 924-4398 after 6 p.m.

ENGINE - Chevy 350 complete motor, 4 barrel, electronic ignition, 4 bolt main, stock. Lou, Ext. 4087.

74 FORD PINTO - wgn, a/t, good running cond. $800. 399-2028 after 6 p.m.

74 AUDI FOX - 4 spd, 2 dr, excel runner, 35 MPG, new front rads. $950. Pete, 924-9143.

73 FORD VAN/CAMPER - 302 V8, a/t, Michelins, raised roof, stove, sink, elec. fridge, stereo, CB, sleeps 4. $3,000. Neil, Ext. 3886 or 924-9143.

74 VW SUPER BUG - a little rusty. $500. Ext. 3713 or 744-7157.

GRANT CT - ¾ Racing Wheel, black vinyl. $25. Sherry, Ext. 5174.

69 VW - sta. wgn, runs good, needs tires, has body rot. $125. Ext. 2951 or 281-2592.

71 CHRYSLER - New Yorker, dark green w/vinyl roof. $750. Jim, Ext. 4040 or 289-0876.

79 GMC SIERRA 1500 - ½ ton pickup truck, cap, insert, dual gas tanks, excel cond, many extras. $4,300. 475-0331.

SNOW TIRES - (2) 13" on Ford Falcon rims, used only one season. $30. Al, Ext. 4216.

RIMS - 14" fit Dodge & Plymouths, possible others. Morris, Ext. 4192.

MOTORCYCLE TRAVEL TRUNK - deluxe KG trunk w/backrest, 6 mo. old, orig. price $100. now only $65. R. Hildenbrand, Ext. 3273.

76 BUICK CENTURY - 6 cly, 4 dr, p/s, p/b, a/c, am/fm stereo, new tires, very clean. 924-3553.

70 HONDA TRAIL BIKE - needs work, body in good shape. $100. Ext. 2964.

69 PLYMOUTH VALIANT - small V8, new front brakes, good running car. $400. Joe, Ext. 7961.

80 KAWASAKI KX125 - Dirt bike, excel cond. $850. 477-0264 or 477-2269 after 5:30 p.m.

65 JEEP - Pickup truck, red w/plow, cap, extras. $1,000. Bud, 281-2289 after 5 p.m.

283 HEADS MILLED - $30; Volks 5.60x15 Dynaglass snow tires, $10; 12x36 snow plow, $25. 878-0201.

75 VEGA - new battery, brakes, timing belt, am/fm radio, no rot. $1,200. Artie, Ext. 2697 or 325-0743.

70 MGB-GT - new head, tires, excel int., orig. paint, spokes. $1,600. Bob, Ext. 3935 or 744-3289.

77 HONDA CR125 - excel cond, new tires, low hours/rebuilt engine. Asking $550. Mike, 929-6177.

69 OLDS - Delta 88. $290. Barrie, Ext. 7561.

70 VW BEETLE - completely rebuilt engine, new paint, good in & out, yellow w/black interior. 589-5490.

76 HONDA 360 - windshield, sissy bar, engine guards, luggage rack, many more extras, mint. $795. negotiable. 281-8274.

67 SAAB - Model 96, 2 dr. sedan, front wheel drive, good mech, new paint. $650. Ext. 4240 or 286-0295.

SNOW TIRES - Sears ER78-14 radials w/w, excel cond. $40. for pair. Arnie, Ext. 4161.

77 BUICK CENTURY - 4 dr, a/c, p/s, p/b, a/t, am/fm stereo, excel cond. $3,250. Ext. 3815 or 924-3553.

CUSTOM PARTS - accessories, performance for your vehicle, low prices. Name brands. Hans, 281-5563 or Ext. 4581.

74 CHEVY IMPALA - 2 dr. white w/blue top, blue int., new carb. & tires, excel running cond, reg. gas, am/fm stereo cassette w/dolby, amp, ant. booster, very clean in/out. $1,200. 399-3006 after 5 p.m.

68 FIREBIRD - needs engine, body good cond. $300. 472-1102 after 3:30 p.m.

74 HONDA CB360 - 3K miles on rebuilt engine, many extras, excel cond, garaged, $850. Pete, Ext. 4612.

TIRES - (2) Firestone 721 steel belted radials, sz LR78-15, like new cond. $30. ea. Azzara, Ext. 4758.

70 BUICK SKYLARK - a/c, p/s, p/b, good transp. needs paint. $500. 821-0080 after 6 p.m.

78 MOTORCYCLE GL1000 - GoldWing Honda, 4,000 mi., like new. $2,600. 473-8783.

66 BRONCO ENGINE - transfer case; 1973 Vega GT tires, rear, front end, trans. 744-9892 after 6 p.m.

CUSTOM PUSH BAR - fits Chevy trucks w/tow hooks, 2 lights. $60. Jim, 265-5218.

79 VW RABBIT - Diesel, 4 dr, leaving country. Dave, Ext. 3403 or 3232 eves.

72 VOLVO - yellow, 4 dr, great on gas for 2 Grand. 669-0224.

TIRES - (2) 4 ply A13-78 w/wheels, good tread, $25. Frank, Ext. 2350 or 475-8187.

HUSQVARNA 250 - Dirt bike, over $350. in new parts, frame & suspension excel, motor apart. $300. bob, 744-3289 or Ext. 3935.

MOTORCYCLE - Honda Hawk 400cc, almost like new, low low miles. $1,200. 585-7094 eves.

Boats & Marine Supplies

1966/60 H.P. EVINRUDE - all electric, excel cond, 2 tanks, 2 props, other extras. $350. Bob Doering, Ext. 4474.

23' FIBERGLASS SAILBOAT - swing keel, pop-top, 6 HP outboard, new sails, cushions, mint, must see. $7,000. Joe, Ext. 7961.

17' O'DAY - w/trailer, asking $1,800. Dan, 286-0745 or 665-6959 or Ext. 7203.

1975 GRADY WHITE - twin 70 HP Johnsons, full instrumentation, white line recorder, VHF, trailer, many extras. Richie, Ext. 3815.

WINNER 15'6" - very clean, 125 HP Johnson Shoreline Galv. trailer, excel cond. $3,800. 331-1754.

22' SEAFARER - 1975 Fiberglass sloop, 3 sails, fully equipped, sleeps 4, excel. Cond. Ext. 4798 or 929-4940.

16' ALUMINUM - open fishing boat, 40 HP Evinrude, outboard, elect. start engine, trailer mfg. to fit. $900. 585-7094 eves.

Yard Sales

GARAGE SALE - Multi Family Garage Sale, Sat. Sept. 26th, 10 to 4 p.m. Stephen Drive, Wading River.

GARAGE SALE - Sept. 26 & 27th, 37 Rustic Rd., Yaphank, 12 to 6 p.m.; punchbowl, 2 bikes, stroller, camera, rackets, dishes, clothes, etc.

Miscellaneous

CHAIR - upholstered swivel rocker, recently reupholstered, blue, arm and head sleeves, scotch guard material. 473-4803.

BOTTLED GAS STOVE - 30", top light, over light/window, Sears Kenmore. 588-7006 after 6 p.m.

KITCHEN SET - w/hutch, 2 yrs young, orig $800, now $250; Westinghouse 16 cu ft Frost-Free refrig, avocado, reconditioned, $250. 399-2028 after 6 p.m.

WHITE SILK DRAPES - lined, 96x144, 100; teak table/chairs, $125; 5 unusual bdrm pieces. 928-7826 eves.

REFRIG - GE No-Frost, 18 cu ft, avocado, side by side, 4 yrs old, like new. Ext. 4959.

HANIMEX CAMERAS - Praktica Super-TL, Oreston 1.8-50 mm lens, Gorlitz 2.8-50 mm lens, hard cases. $15 ea. Ext. 2605.

BALLET SLIPPERS - pink, sizes 1, 2, and 4, $1/pr; black riding helmet, velvet size 7, $10; teen boots, natural leather w/braided leather trim, size 8, $6. 282-3390 or 751-3551 eves.

CRAIG AM/FM - stereo cassette player, audiovox 5-band 40-watt equalizer, pair 6x9 coaxial speakers. $100. Ext. 5174.

FRENCH PROVINCIAL - couch, end tables, coffee table, 2 blue chair, antique china closet, odds and ends. Ext. 4960.

PIZZELLE MAKER - waffle iron; steam iron; aquarium equip; GE table top hair dryer; table lamp; elec fry pan. Barbara, Ext. 4960.

ELECTRIC RANGE - GE coppertone drop in oven; coppertone Frigidaire Frost-Free, 14 cu ft refrig-/freezer, $125/ea; 23" Zenith console color TV, $150; 6 ft stereo cabinet (solid wood), $175, all in excel cond. 751-5539.

DOG GONE - insulated house for medium size dog, 50' chain link fencing (36" high), 50' mesh fencing (48" high). Fred, Ext. 2057 or 261-5735.

CLOTHES DRYER - outdoor umbrella type. $8. 286-1522 eves.

HORSEBACK RIDING BOOTS - French, ladies size 8. $25. Ext. 3887 or 286-0353.

FRONT CARRIER - Jerry (red), good cond, orig $27, now $13; Duck Family Kit, $2. Ext. 4933 or 369-1175.

CLOTHES DRYER - portable Panasonic, excel cond. $80. Ext. 4345 or 736-1647.

MOWER - push reel type, ideal jogging substitute, $25; dwarf alberta spruces, 3', 20 yr old, $15. John, 744-5867.

FISHER WOOD STOVE - Model MaMa Bear w/screen, excel cond. $250. Ext. 2898.

LAWN SPREADERS - (3) all w/operational manuals, Scott's automatic s/s, like new, $40; Ortho Whirlybird hand spreader, like new, $6; Cyclone Broadcast rotary type, good cond. $20. 286-0379.

GM CAR SEAT - very good cond. 924-6139.

DROP LEAF TABLE - Circa 1900 Duncan Phyfe, w/3 leaves and cover. $125. 286-8984.

ROCK - 8 tracks, $2 ea; fan 20", $10, excel. Ed, 286-1713 after 5 p.m.

BLANK CASSETTE TAPE - quality FeO, FeCr and CrO2, C-90's, $2.75/ea. Ext. 2521 or 928-8379 eves.

BOY SCOUT UNIFORM - size 10 complete w/extra pieces. $10. Lois, Ext. 4904 or 929-4753.

LIVING ROOM FURNITURE - couch, 2 chairs, good cond. $250 complete. 924-6613.

EARLY AMERICAN - sofa, loveseat, chair, ottoman. Ext. 3392 or 475-8330.

CANON CAMERA - Canonet 35 mm tripod, case, strap, filter, flash, etc. $75. Artie, Ext. 2697.

HANGING LAMP - wood and wrought iron; 4 lights, excel cond, asking $45; ceramic Spaniard wall piece, $3; metal candle sconces (2), $5; framed Spaniard painting, $10. Lois, Ext. 4904 or 929-4753.

FIREWOOD - split, seasoned oak 4'x16' 18". $110 delivered. 924-4284 or 924-2881.

EVERGREEN - fir and spruce trees, 22" to 40" tall, U-dig, 2 for $7; lily of the valley plants, 50 for $2.50. 727-1617.

McINTOSH - MC30 power amp, 30 watts. $100. Bob, Ext. 3935 or 744-3289.

MOTORCROSS BOOTS - $30; helmet w/visor, $15; kidney belt, $5; Scott mask, $10. Ask for Rich, 878-1580.

PUPS - German short hair pointers, AKC all healthy. 281-8916.

TV - 25" color console, $250; Bell and Howell sound projector, $150. Edward, Ext. 3403 or 751-1826 after 5:30 p.m.

KODAK - Carousel projector Model 650H w/140 slide tray, new bulb, like new. $100; Bundy cornet, very good, excel for beg, with mouthpiece. $150. 399-3006 after 5 p.m. wkdays.

DOOR - exterior new 2'8"x6'8"x1¾"; 3 windows, right pre-hung fir. $110. 924-6582.

BED - 39x72" mattress, box spring, frame, head board (Gertz), like new. $100. Nick, Ext. 4701.

CRIB - $50; highchair, $15; baby scale, $5; excel cond. 924-5495.

SKI BOOTS - Caber bios men's 9-9½, brand new, never used. $75. 929-8662.

COPY MACHINE - large IBM, needs adjustment. Must sell, any reasonable offer. 399-1736 after 5:30.

STROLLER - Tandem, very good cond. $18. Tom, Ext. 4084.

GOLF CLUBS - lefty Jack Nicklaus Dorado woods 1,3,4. $60. Mike, Ext. 4728.

CORDLESS SHRUB TRIMMER - 14", double blade, new, w/charger. $16. Ext. 4058 or 286-0436.

VIOLIN - ½ size, bow, case, excel tone, used by serious student. $150 firm. 744-9861 after 6 p.m.

UNISUITS - (2) Posieden, brand new, 1 large, 1 extralarge. Asking $500 ea. 744-9892 after 6 p.m.

SURF CASTING ROD - and reel and tackle, $40; Sanyo clock radio, $20; Sanyo cassette portable, $40. Frank, Ext. 4709.

BICYCLE - Lotus Odyssey Champion tubing, 21" Sugion crank Suntour cyclone derailleurs, Avocet saddle panniers, 23 lbs. Thomas, 929-8662.

WEIGHT SET - w/bench. $25. Jim, 265-5218.

EXERCISE BIKE - Sears Two Action, excel cond. $30. Mike, Ext. 4293.

BIKE - men's 27" 10 spd, $100; Andersen thermal pane window, 37½"wx40½"h, $60. 929-4886 after 5:30 p.m.

TRUMPET - good cond, needs polishing w/case. $50 negotiable. Bill Sanchez, Ext. 3848 or 698-3145.

BIKE - 5 spd, as is. $25. 727-3608 after 5 p.m.

BICYCLE - Miyata 10 spd, needs some minor work. $50. Joe, 286-9260 from 8-10 p.m. only.

HONEY - raw organic, 12 oz. dispenser. $2. Hugh, Ext. 5051 or 924-3293.

BOY'S JACKETS - leather, size 7; nylon w/lining, size 8; cleats, size 2½; winter boots, size 1, excel cond. S. Spark, Ext. 4111.

SEARS STEREO - console 8 track tape player and recorder, am/fm radio, record changer, excel cond. $200. 981-4419.

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

SHOREHAM VILLAGE - custom ranch, 3 bdrms, 2 baths, fam rm, w/fp, d/r, l/r, gourmet kitchen, 2 car o/s garage, 0.8 acre, w/w throughout, new oil burner, good financing, walk to priv beach, tennis, club. Ext. 3064 or 821-0890 after 5:30 p.m.

FLANDERS - 2 blocks from the Peconic Bay, plot consists of main house, small house, 1 car garage, enclosed patio w/BB-que pit, ¾ acre. Main house: 4 bdr,s. l/r, formal d/r, 3 full baths, kitchen, full bsmt, and suana. Small house: 2 bdrms, l/r, full bath, kitchen and bsmt. $60,000 w/a 12% assumable mortgage. Sandy, Ext. 4933 or 369-1175.

WADING RIVER - corner acre cleared and partially landscaped, prestigious area. Asking $22,500. 929-4173 after 5 p.m.

FLORIDA - condo, half hour from Disney World, large lake, huge trees, tennis courts, pool. 281-7986.

BELLPORT SOUTH - large 4 bdrms, 4 baths, colonial on peaceful acre of trees, 2 car garage, potential guesthouse, partially furnished if desired. 286-2127.

RIVERHEAD AREA - mobile home 10x50, 1 bdrm, stove/refrig, washer/dryer, tool shed, covered patio, air cond. Ext. 3138.

CALVERTON - 3 bdrm condo, 1½ baths, l/r, d/r, w/w carpet, all appl, central a/c. $28,000 Ext. 4799 or 369-2413.

MILLER PLACE - spacious tri-level ranch w/income apt. House: 2 bdrm, dinette-kitchen, l/r and full bath. Apt: large kit, large l/r w/picture window, 1 bdrm, full bath, 2 car and storage shed, ¾ acre, scenic view, patio's, etc. 744-2536 after 6 p.m.

For Rent

BAYPORT - large barn, good cond. 472-1397.

MASTIC BEACH - lovely 3 bdrm ranch in wooded area, ½ mi from Bay, near Smith Point. $450/mo + util. Ask for Pat, Ext. 7635.

NO. PATCHOGUE - share a store, 300 sq ft priv entr, ideal for service business. $200/mo +. 475-8456.

POCONO'S - chalet, sleeps 5, tennis, golf nearby, fall special $75/wkend. Bob, Ext. 4551 or 289-2159 eves.

REMSENBURG - winter rental, 6 rm passive solar house, fp, furnished, meadow view. $350/mo. 325-0582 after 6 p.m.

STONY BROOK - Strathmore 3 bdrm ranch, l/r, d/r, large eik, 2 baths, 2 car garage, excel School Dist, 5 min to SUNY. Avail immed. 751-4868.

MILLER PLACE - 3 rm apt w/priv entr, use of garage and storage, walk to stores and beach, very priv. $325/mo incl heat and elec. 744-2536 after 6 p.m.

E. MORICHES - 4 bdrm Cape Cod; quiet st; new school and lake; full basement; private, secluded yard; 0.8 acre. $375/mo. Days 878-2522, evenings, 878-4983.

BELLPORT VILLAGE - 4 rm 1st fl apt, priv gar, all util incl in lease. $460/mo. Tennis golf, dock fac avail. 286-8850.

Wanted

RECEIVER/HITCH - under frame for 1980 Ford pickup. Leo, Ext. 3498.

SCUBA EQUIPMENT - in good cond. Laurence, 744-5079 eves.

HOUSE TO BUY/RENT - Bellport or Brookhaven, below So. Country Rd. only. Ext. 4388 or 286-8095.

AMBITIOUS PERSON - $200 to $400 per mo, 4-6 hrs/wk. 698-5861 after 7:30.

DESK AND CHAIR - and elec typewriter for student. Ext. 2487 or 928-6930.

DONATION - all plastic life-size doll, to be used in conjunction w/a fire dept babysitting coure. Ext. 3336.

ANIMAL TRANSPORT CAGE - looking to buy. 475-0037.

BABYSITTER ON SITE - afternoons, 5 days for 3 yr old. Maria, Ext. 3077 eves.

FULL SIZE VIOLIN - for student. Ext. 2926 or 281-0268.

30 LB. PROPANE TANKS - (2) ea for camper or trade for 2 (20 lb). 286-1522 eves.

ANTENNA - for trailer camper w/bracket. Reasonable. Ext. 2964.

TICKETS - dance enthusiast wants to buy 1 or 2 tickets to Alvin Ailey Ensemble. If you have one, please call Ext. 3395/3116.

ORIGINAL RADIO - and clock for 1967 Chevy Biscayne, restoring. Ext. 4475 or 929-3251 eves.

DONATIONS - of Fischer Price toys in good cond for non-profit Nursery School. Maria, 924-3756.

BUCKET SEATS - for late model Monza, black, heavybag, surfboard 6-7 ft. Bob, Ext. 3935 or 744-3289.

FREEZER - preferably chest type, 10 to 12 cu ft. Reasonable. 589-5490.

KEROSENE HEATER - Edward, Ext. 3403 or 751-1826 after 5:30 p.m.

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

HELP! - need fictional villain names for Project. Call Skelly Frei, Ext. 4417 or write Bldg. 750 w/your list.

OLD VAN - in good cond, body and engine must be good. Bill Sanchez, Ext. 3848.

HOUSE TO RENT - Bellport Village or Brookhaven Hamlet. Ext. 5055 or 286-0919

Car Pools

MASSAPEQUA AREA - call Al, Ext. 4216.

MEDFORD - student needs ride to Medford, Friday eves only from BNL. 9/25 to 12/11/81. Ext. 3336.

Services

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

ARE YOU BUG FREE? No! Then call Bert. Free estimates. 399-0523.

KAYAK LESSONS - equipment supplied, eves and wkends (5) 1½ hr lessons, $50. Basic course also physical fitness and wild life tours. Ernie, Ext. 5383 or 281-7873.

EXPERT SPACKLING/TAPING - 30 yrs experience. Bill, 286-8185 after 5:30 p.m.

BABYSITTING - mother willing to sit, Shirley area, prefer a 2 to 4 yr old. Mary, 399-6128.

SMALL APPLIANCE REPAIRS - elec heaters and motors, typewriters, sew-mach, vacuums. North Patchogue, 654-3900.

PIANO LESSONS - by experienced teacher, 3 Village area, pre-school and older. Ext. 3766 or 928-3244.

DOLLS/HANDMADE - order for Xmas. Raggity Ann, Andy, Grandma, Grandpa, cat, country doll, brother, sister, dancing doll. 878-9102.

ASPHALT PAVING - and sealing. Bob, 475-4382.

MOVING - call Ed. Reasonable. 286-1713.

TREE SERVICE - removal, pruning, trimming; years and garage clean ups. 727-1617.

BURGLAR/FIRE ALARM SYSTEMS - residential and commercial, sales, service, free estimate. Ext. 3815.

HOUSE PAINTING - interior/exterior, professional, quality materials, insured. Bob, 289-7657 after 6 p.m.

FIRESIDE CHIMNEY SWEEPS - all types of flues, have it cleaned before the season starts. Lab discount. Bill, 584-6425.

RESUME PREPARATION - low cost, professional service. Bill Polvent, 744-8999.

BOAT REPAIRS - all types, 30 yrs experience. 698-1176 or 289-1516 eves.

CARPENTRY - small repairs and modifications 929-4251.

AUTOMOTIVE REPAIRS - sandblasting, small cars, big cars. Reasonable rates. 744-3968 or 744-9892 after 6 p.m.

OUTBOARD MOTOR REPAIRS - O.M.C. factory trained mechanic, winterize, tune-ups, rebuild, low rates, guaranteed. Jim, 265-5218.

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