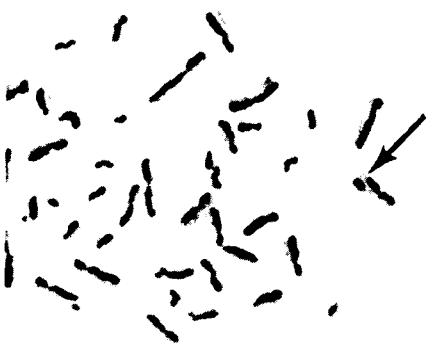
BROOKHAVEN BULLETIN
Vol. 39 - No. 15 April 12, 1985
BROOKHAVEN NATIONAL LABORATORY

Is DNA Repair The Same for All ?



One of several sister chromatid exchanges (see arrow), photomicrographed at 1000x. An increased number of SCE's are induced in white blood cells by MNNG and Mitomycin-C.

William Marin Jr.

Two micronuclei (see arrows), one per white blood cell, as seen through a photomicroscope at 1000x. Micronuclei result from exposing leukocytes to x-rays.

Do all normal, healthy people have equal ability to repair damage to their genes? And is this repair ability, or inability, related to people's risks of certain diseases, such as cancer?

To answer these questions, Michael Bender, Jay Leonard, Robin Leonard and Judith Wieland of the Medical Department, and Richard Setlow of the Biology Department are studying sets of white blood cell cultures established from blood samples donated by BNL employees. Medical Associates Bea Pyatt and Angela Boccio are assisting with the lab work. This is the first year of the project, which is funded by the U.S. Department of Energy.

"We want to know if normal people vary in the accuracy and completeness of their DNA repair after damage by four model genotoxic agents," says Cytogeneticist Jay Leonard. The four genotoxic agents to which human white blood cell cultures are being exposed are: ultraviolet radiation (UV), x rays, n-methyl-n'-nitro-n-nitrosoguanidine (MNNG) and mitomycin-C.

"All of these agents are genotoxic," explains Leonard, "that is, they can damage DNA, the material of which genes are composed. The two types of radiation and the two chemicals each damage different parts of DNA in different ways. We are looking for individuals whose white blood cells fall below the norm for DNA repair after being damaged."

All blood donors are required to complete a questionnaire regarding their work, health and personal history. "Other studies, as well as ours, clearly show that some lifestyle factors cause measurable damage to DNA," explains Epidemiologist Robin Leonard. "For example, cigarette smoking causes an increase in sister chromatid exchanges. The questionnaire data is enabling us to control for many external factors that may affect our results."

Peter Horton

(From left) Judith Wieland, Michael Bender, Robin Leonard and Bea Pyatt.

"We know of the enormous number of dangerous substances in the environment to which we can be exposed," continues Jay Leonard, "and we wonder why everyone doesn't come down with a tumor of some sort. The reason we don't is that the body is engineered to take care of a great many things which will damage DNA.

"Normally, sets of enzymes recognize damaged portions of DNA, cut them out and insert the correct molecules," explains Leonard, "but some people do not have the necessary enzymes. Severe DNA repair deficiencies are seen in people with certain rare genetic diseases, such as xeroderma pigmentosum and ataxia telangiectasia. People having these diseases suffer neurological or immunological disorders and typically die at young ages due to infections or cancer. These diseases are extreme and dramatic examples of the importance of DNA repair."

DNA is a double helix formed by the association of two complementary chains of nucleotides. Each nucleotide has three parts: a base, a sugar and a phosphate. The base is either a purine (guanine or adenine) or a pyrimidine (cytosine or thymine). Each base is connected to a sugar molecule called a ribose, and the sugar is attached to the phosphate.

Additionally, the sugar of one nucleotide is bonded to the phosphate of the neighboring nucleotide to form the alternating sugar-phosphate backbone of the nucleotide chain. The two nucleotide chains of DNA are held together in a helix by the bonding between a hydrogen of a base of one chain to an oxygen or nitrogen of a base on the opposite chain. The structure of the bases requires that guanine always hydrogen bond with cytosine, and adenine bond with thymine.

The structure of DNA is distorted in a different manner by each of the four genotoxic agents under study. However, the four types of damage can be repaired with great accuracy and efficiency. The residual damage or amount of repair is examined using established methods.

Peter Horton

Jay Leonard and Angela Boccio.

UV most commonly causes adjacent pyrimidine bases (cytosine or thymine), which normally are not bonded together, to become linked. A DNA enzyme system recognizes the distortion, cuts it out and replaces the nucleotides. The researchers study this repair process using autoradiography, by measuring the amount of radioactively labeled replacement nucleotides incorporated in DNA.

The most common effect of x rays is to break the sugar-phosphate backbone of the DNA chain. DNA breaks that are not properly repaired result in broken chromosomes, and these chromosome fragments form small nuclear fragments, called micronuclei, which are counted under the light microscope.

MNNG adds methyl molecules to DNA, particularly to an oxygen atom of guanine. DNA containing radioactively labeled methyl groups added by MNNG is exposed to a cellular extract which removes the radioactivity from DNA and transfers it to an acceptor protein. The radioactivity transferred is measured using a scintillation counter.

The second way of looking at the effect of MNNG on DNA is an index of the amount of residual damage. Under the light microscope, the researchers look for sister chromatids, the two daughter strands of a chromosome after it has duplicated. They see sections of genetic material exchanged between sister chromatids in direct proportion to the dose of MNNG.

Mitomycin-C also reacts with guanine, but it causes abnormal chemical bridging between the two nucleotide chains. Residual damage by mitomycin-C is gauged by counting sister chromatid exchanges under the microscope.

"Although the use of these assays for screening people for cancer risks is entirely theoretical at this point, we do expect to gain some basic knowledge about individual susceptibility to cancer," concludes Jay Leonard. "By finding out the extent of DNA repair variation in the normal population and following the study participants over a long term, we hope to determine if subtle differences in DNA repair capacity are related to the risks of acquiring the most common cancers."

— Marsha Belford

Alex Reben

Representative William Carney (1st C.D.) visited BNL on Wednesday to discuss Lab programs. During the day, he met with members of the directorate and department chairmen. With Mr. Carney (second from left) in the Director's Office are Vincent O'Leary (left), Associate Director; Michael Knotek, NSLS Chairman; Carney staffer John LaMura; and Martin Blume, Deputy Director.

Peter Horton

Representatives of the New York City Fire Department and the Brooklyn Union Gas Company came to Brookhaven on March 15. They witnessed combustion and cryogenic tests on insulating polymer concrete that the Process Sciences Division of DAS has been developing to improve the safety of liquid natural gas storage facilities at the gas company's Greenpoint Energy Center in Brooklyn. The material will be used to overlay the surfaces of the impounding dikes surrounding each of the two large storage tanks now in operation at the site. In case of a leak or rupture, the insulating material will reduce the rate of boil-off of the gas thus restricting the combustible mixture formed from traveling beyond the property limits. The successful application of this material at the Brooklyn company could lead to adaptation at a number of other sites where liquid natural gas storage facilities are situated near populated areas.

At the BNL tests were (from left) David E. Rosentstroch, Asst. Chief Inspector, New York City Fire Department; George Kelly, Consultant, Brooklyn Union Gas Company; Peter Schorr, Principal Engineer, Brooklyn Union Gas Company; Meyer Steinberg, BNL; Morton Ingram, Ingram and Greene, civil contractors; Jack Fontana, BNL; and Steve Aurora, Sr. Engineer, Brooklyn Union Gas Company.

Coming Up

A week-long **Workshop** on Experiments for a Relativistic Heavy Ion Collider will be held at Brookhaven starting on April 15 at the Collider Center. Opening statements and presentations will be given at 9:30 a.m. until 4 p.m. when the conference will organize into working groups. Final presentations will be given on Friday, April 19, at the Physics Department seminar room. Interested staff members are invited to attend these sessions.

Thomas Ludlam, an organizer of the workshop, will give a Brookhaven Lecture on "The Quest for Quark Matter" on April 24, at 4:30 p.m., Berkner Hall. Ludlam, a physicist in the Physics Department, heads the FY 1985 Relativistic Heavy Ion Collider Task Force. 16570

Inside Info

Maurice Goldhaber, AUI Distinguished Scientist, will receive a Golden Plate Award from the American Academy of Achievement. The Academy is a non-profit organization established in 1961 and dedicated to the inspiration of youth. Each year, 40 men and women who have achieved distinction in various fields are invited to participate in a "Salute to Excellence" weekend where they will meet one another and share their experiences with 350 outstanding high school honor students chosen from the 50 states. Among those who have been honored in the past are Val Fitch, Sheldon Glashow, Robert Hofstadter, Stephen Jay Gould, Alex Haley, Burt Reynolds and Chuck Yeager.

ANS Meeting

Frederick M. Bernthal, Commissioner of the U. S. Nuclear Regulatory Commission, will speak at a banquet sponsored by the Long Island Section of the American Nuclear Society on Thursday, April 18, at 6:30 p.m. at the Bavarian Inn. His talk will be on "Safety Advances and the NRC: The New Face of Regulation." At the banquet, local ANS members and guests will be joined by those attending the Specialists' Meeting on Decay Heat Removal and Natural Convection in LMFBRs.

Reservations for dinner ($13.50 for members and $14.50 for non-members) may be made by calling Dorothy Thompson, Ext. 2444, before April 16.

Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Dept. of Commerce, 5285 Port Royal Rd., Springfield, VA 22161. Staff members should call Ext. 5068.

BNL-51779
Workshop on Problem Areas Associated with Developing Carcinogen Guidelines. Held BNL Sept. 7-8, 1982. O. White, Jr., J.E. Brower

NUREG/CR-3898
BNL-NUREG-51802
An Evaluation of the Effects of Gamma Irradiation on the Mechanical Properties of High Density of Polyethylene. D.R. Dougherty, J.W. Adams, R.E. Barletta

BNL-51804
Costs of Controlling Emissions from the Manufacture of Silicon Photovoltaic Cells Using Dendritic Web Technology. I. Wilenitz

1985 Scholarship Winners

The scholarship program received an assist from the AUI Trustees in January when they raised the 1985 scholarships from $1700 to $2000 per year for up to four years. The increase does not apply to scholarship winners currently in college. This year, 78 sons and daughters of BNL employees applied for the AUI Trustee Scholarships and 14 were selected. The winners were chosen by an independent committee appointed by the College Scholarship Service, Princeton, N.J., which administers the program for AUI.

Robert Benkovitz...son of Carmen Benkovitz, DAS...student at Smithtown H.S. West...resident of Smithtown...will attend St. Lawrence or SUNY at Binghamton...major in science.

Allen Bertsche...son of Alfred Bertsche, Accel. Dev...student at Shoreham-Wading River H.S...resident of Shoreham...will attend Indiana Univ...major in languages.

William Casswell...son of William Casswell, Accel. Dev...student at Miller Place H.S...resident of Miller Place...plans to attend Cornell...will study engineering.

Kevin Chmiel...son of Robert Chmiel, Physics...student at Miller Place H.S...resident of Miller Place ...will go to Cooper Union...major in engineering.

Liesel Gould...daughter of John J. Gould, AGS...student at Cold Spring Harbor H.S...resident of Huntington ...will attend Dartmouth...premed.

Scott Kramer...son of Caroline Kramer, DAS...student at Shoreham-Wading River H.S...resident of Shoreham...plans to attend Columbia ...will study engineering or computer science.

Paul Lee...son of Yong Yung Lee, AGS...student at Smithtown H.S. West...resident of Smithtown...plans to attend Princeton or Yale...premed.

Lenora Manzella...daughter of Vito Manzella, Physics...student at Mercy H.S, Riverhead...lives in Center Moriches...plans to attend Princeton or Boston College...major in English/communications.

Matteo Pellegrini...son of Claudio Pellegrini, NSLS...student at Ward Melville H.S...resident of Stony Brook...plans to attend Columbia ...major in physics.

James Reisman...son of Ann W. Reisman, DNE...student at Southampton H.S...resident of Southampton...plans to attend Cornell or Carnegie-Mellon...expects to study physics.

Kathryn Rorer...daughter of David C. Rorer, Reactor...student at Earl L. Vandermeulen H.S...lives in Port Jefferson...plans to attend Harvard...has chosen career in medical physics.

Jay A. Sanchez...son of Jose Sanchez, DAS, and Lucy Sanchez, Chemistry...student at William Floyd H.S...lives in Shirley... will attend West Point...major in Middle East affairs.

Tomas A. Saulys...son of Alfred C. Saulys, Physics...student at Shoreham-Wading River H.S...resident of Shoreham...will attend M.I.T. or Stanford...major in mathematics.

Diane Thompson...daughter of Patrick A. Thompson, Accel. Dev ...attends Schenley H.S...is a resident of Pittsburgh...will attend Cornell ...major In political science.

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Published weekly
for the employees of
BROOKHAVEN NATIONAL LABORATORY

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Report From WIS

The first event for the benefit of the Renate W. Chasman Scholarship Fund, a concert on March 23, netted $1200. The Brookhaven Women-in-Science, sponsor of the fund, wish to thank those who bought tickets to the event and who sent in contributions.

This is a laudable first step on the way to the WIS goal of $10,000, which will be used to create scholarships for Long Island women undergraduates. Contributions are tax deductible and are welcome at any time. Checks should be made out to the Renate W. Chasman Scholarship Fund and sent to Box 183, Upton, N. Y. 11973, or to any of the following committee members:

	Bldg.	Ext.
Penny Baggett	902B	5154
Mary Kinsley	426	5232
Mary Phillips	426	3282
Gail Williams	460	3338

The Numbers Game

Two more life numbers have been placed in the Bulletin, so see if one of them is yours. Erich Willen spotted his last week, but the other number has not yet been claimed, (clue: the person is in the Medical Dept.).

Car Rentals

As a result of recent negotiations with Avis, BNL is now entitled to lower rates on car rentals than in the past. Another change is a new identification number, A/A 242635. Employees may pick up the new cards and stickers at the Travel Office.

Photo Sessions

To teach beginners how to take better pictures and develop their own film, the Suffolk County Farm & Education Center is holding a series of workshops. Subjects include "Getting Acquainted with your Camera" on April 21, "Contraptions and Gadgets: A Photographer's Toys," on May 18 and "Revealing What Your Film Has Captured," June 23.

All workshops begin at 1 p.m. There is a fee of $2 per class or $5 for the series. Bring your own camera. For further information call 924-4535, Ext. 507.

Stony Brook Events

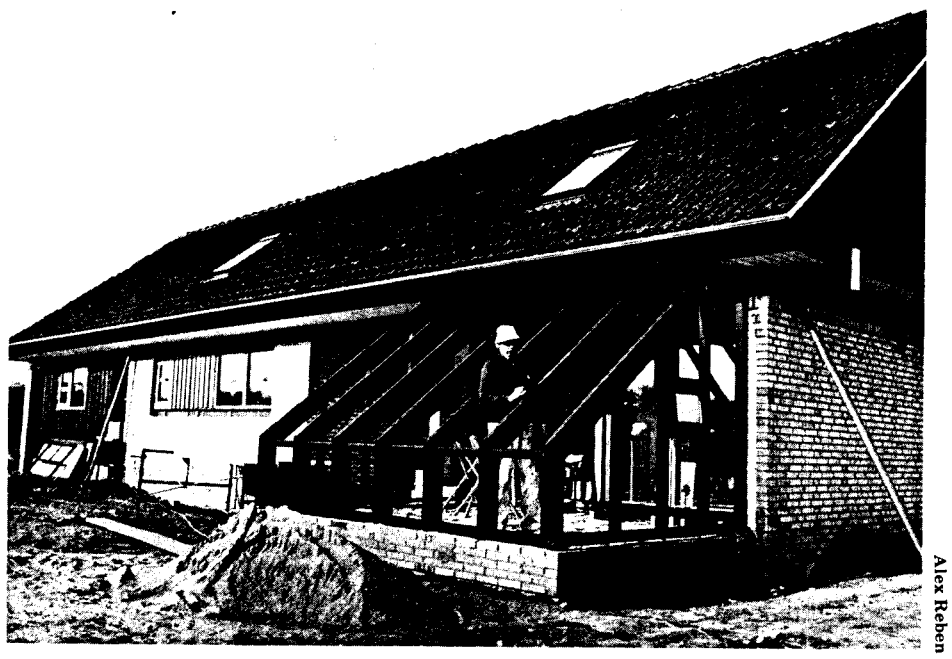
April 13 — N. Carolina Dance Theatre, 8 p.m., Main Stage.

April 20 — Elmar Oliveira, violinist, 8 p.m., Main Stage.

April 24 — Christopher O'Riley, pianist, 8 p.m., Recital Hall

April 27 — University Chorus and Symphony Orchestra, 8 p.m., Main Stage.

For information, call the box office, 246-5678.



Alex Reben

As of Tuesday afternoon, the exterior of the Danish House was nearing completion. Bjarne Pedersen is painting the wooden rafters of the greenhouse, soon to be enclosed in glass. This enclosed patio is accessible from the living room through a framed, triple glazed door and can be seen through the glass living room wall. The windows to the left of the winter garden are those for the master bedroom and, farther left, for its full bath. The windows of this house cannot be opened, but the slatted shutters can; even closed, they safely ventilate the house while safeguarding against burglary. At the far left is a tool shed, which is detached from the rest of the house, but is convenient to the double carport and a side door. The two skylights in the roof permit sunlight to enter the attic; though the second story can be utilized as living space, it is not being finished in this model. Inside the house, a staircase and cabinets are now being installed. Employees are invited to tour the Danish House on April 19, from 11 a.m. to 2 p.m. and from 4 p.m. to 6 p.m.

Stockroom Closing

Building T-90 will be closed for inventory on April 25 and April 26. Please make all necessary withdrawals of stock prior to 3 p.m., Wednesday, April 24. This will give the Supply and Materiel Division sufficient time to prepare for the inventory. Emergency requirements should be processed through John Scharpeger, Ext. 2974.

Arrivals & Departures

Arrivals

James P. Pleickhardt ..... Plant Eng.
Regis Saitta ..... Plant Eng.
John P. Stone ..... Medical

Departures

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

Dennis G. Averill ..... S&EP
Norma R. Cicale ..... Chemistry
Tatiana Kolubayev ..... DAS
Karen M. Ratel ..... Staff Svcs.
Martha N. Simon ..... Biology

Cafeteria Menu

Week Ending April 19

Monday, April 15

Chicken rice soup	(cup)	.65
	(bowl)	.85
London broil w/mushroom gravy & 1 veg.		2.35
Southern fried chicken & 1 veg.		2.15
Hot Deli: Monte Cristo		2.15

Tuesday, Apri 16

Vegetable beef soup	(cup)	.65
	(bowl)	.85
Short rib of beef & 1 veg.		2.35
Sweet 'n sour pork on rice		2.20
Hot Deli: Meatloaf	(bread)	2.00
	(roll)	2.20

Wednesday, April 17

Cream of mushroom soup	(cup)	.65
	(bowl)	.85
Chinese pepper steak on rice		2.20
Spinach, bacon & Swiss cheese quiche & 1 veg.		2.05
Hot Deli: French dip	(bread)	2.05
	(roll)	2.25

Thursday, April 18

Potato leek bouillon soup	(cup)	.65
	(bowl)	.85
Roast pork loin w/stuffing		2.20
Salisbury steak & 1 veg.		2.15
Hot Deli: Smoked turkey breast	(bread)	2.15
	(roll)	2.35

Friday, April 19

Manhattan clam chowder	(cup)	.65
	(bowl)	.85
Oriental shrimp & snow peas on rice		2.15
Knockwurst & sauerkraut		2.10
Hot Deli: Hot Italian beef	(bread)	2.05
	(roll)	2.25

—BERA News—

Swim Club

The Swim Club will meet informally at the Brookhaven Town/Mastic YMCA pool on Thursday, April 18, at 5:30 p.m. Swimmers who can offer rides and those who need one for this meeting or to swim after work should call Jim Lipka, Ext. 3372. For more information, call Marsha Belford, Ext. 3327, or Mark Catan, Ext. 2504.

Cricket Club

As in previous years, the Brookhaven International Cricket Club is planning to arrange some matches with outside clubs during the summer. Please contact Dave Cox at Ext. 3818, or John Millener at Ext. 3853 if you are interested in playing or would like further details. 16912.

Bowling

White League

High games were bowled by Ken Asselta 256, Jim Griffin 248/247/681 scratch, Ken Riker 213, Ben Belligan 213, Ed Sperry 210, Charlie Tomesch 201.

Purple League

Joe Ferrante rolled a 205, Dick Adams 204, Elaine Zukowski 197/193, Nancy Erickson 187, Pat Manzella 176.

Red/Green League

J. Morris had games of 231/201/623 scratch, H. Arnesen 231, H. Marshall 222, D. Jesaitis 222, B. Jones 213, E. Sperry IV 208/204, R. Larsen 201, N. Combatti 200.

Pink League

Ann Parrinello bowled a 187.

Basketball

First Game

Longshots - 62		Runaways - 67	
P. Brown	7	S. Gilbert	5
J. Gaeta	4	T. James	25
J. Gaffney	10	G. Shepherd	14
J. Garrison	14	G. Smith	8
L. James	14	M. Tardd	15
R. Seymore	6		
E. Taylor	3		
L. Walcott	2		
R. Rowley	2		

Second Game

Coasters - 49		Hollywood - 61	
K. D'Amico	2	R. Domenech	7
R. Doty	8	G. Grigg	12
M. Fulkerson	3	A. Heard	2
F. Malone	10	R. Kowalski	2
B. Allen	8	G. Mack	12
A. Washington	4	E. Meier, Jr.	19
M. Williams	14	D. Nordstrom	7

PSI News

Professional Secretaries International has designated April 21-27 as Professional Secretaries Week, and April 24 as Professional Secretaries Day. The theme for 1985 is "Pride in Performance."

Locally, the PSI Upton Chapter has planned the following activities:

April 18 — Dinner Theatre, "Love, Sex and the IRS," 7:30 p.m. at the Island Squire, Route 25, Middle Island. For reservations, call Patricia Durcan, 924-5533.

April 20 — Pennysaver News will issue a special Professional Secretaries Week edition honoring Upton, Twin Forks and Queen Anne PSI chapters.

April 22 — Film "She's Nobody's Baby" will be shown at Applied Math, Bldg. 515. A meeting will be held at 5:30 followed by the film at 6:30. Refreshments will be served.

April 17 — Seminar/Workshop on "Self Esteem: The Key to Personal Power" at Fairchild Republic Company, Farmingdale, sponsored by Queen Anne Chapter. A fee of $45 includes lunch and seminar materials.

Golf

The first tournament of the BGA golf season will be held on Thursday, April 25 at the Bellport Country Club. Tee times will begin at 11 a.m. and may be obtained by contacting Doug Sweely, Bldg. 535B, Ext. 4237. There will be a $1 entry fee for BGA members and a $2 entry fee for non-members. Deadline for signing up for the tournament is Monday, April 22. Greens fees will be $9 ($8 for Bellport residents). The tournament will be run using the Callaway handicapping system.

Afro-American Culture Club

Members of the Afro-American Culture Club are invited to vote for new officers. A ballot box will be set up in the lobby of the Cafeteria on April 17 and 18 between 12 and 1 p.m. The slate of offices and nominees are:

Vice President
Cosmore Sylvester, Bill Sells
Recording Secretary
Bettie Sylvester, George Grigg
Corresponding Secretary
Mary Cooper, Rosa Palmore

Volleyball

C League	W-L
Captain Midnight	40-14
Tigers	36-18
Screw Balls	35-19
Craw	21-33
Quarks	18-36
Couples	12-42
Open League	
Phoenix	55-2
Odds & Sods	34-23
Half Lifes	28-29
Team 6	23-34
Rowdy Radicals	22-35
Generic	9-48

Congratulations to the Dinkers in the "A" Division for taking first place over UpFaGrabs and to TNT in the "B" Division for taking first place over Fossils in the 1984-85 season.

There will be a five-game series between Nuts & Bolts (A League) and TNT (B League) on Monday, April 15, at 5:30 p.m.

The Volleyball Awards Dinner will be held Friday, May 10, at 5:30 p.m. at the Rock Hill Country Club in Manorville. Tickets are now available from team captains at a cost of $5 each for team members and $9 each for guests. Captains can obtain tickets from Barry Karlin, Ext. 5624, or Walt Reams, Ext. 3408.

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. 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.

2217. TELEPHONE OPERATOR - Requires previous work experience operating a large telephone console (GTE knowledge helpful). Must work rotating day shifts. Staff Services Division.

2218. MAIL CLERK - (temporary 5/20/85 to 8/30/85). Staff Services Division.

2219. CLERICAL/ADMINISTRATIVE POSITION - Requires an AAS in business administration or its equivalent and experience in the preparation of business related reports and correspondence. Excellent communication skills are also required. Responsibilities will include preparation of correspondence, weekly/monthly summary reports, travel arrangements and heavy communications within and outside the Laboratory. Experience with word processing or IBM PC's a plus. Central Shops Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2220. RESEARCH ENGINEER - Requires MS degree in engineering or equivalent, plus a minimum of five years' experience in building research. Will manage and participate in program of research on advanced thermal distribution systems in residential and small commercial buildings. Work will include integration of space conditioning equipment and the distribution systems, and will involve consideration of advanced thermal comfort criteria. Department of Applied Science.

2221. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Requires minimum of five years' industrial electrician experience. Plant Engineering Division.

Autos & Auto Supplies

74 VW DASHER - 4 dr., driving cond., radial tires, a/t, 90k mi., $250. Willie, Ext. 4489 or 585-6271.

82 CELICA ST - sports coupe, 5 spd., a/c, good cond., $5,995. 737-0076 eves.

79 HONDA 750 - motorcycle, 8k mi., excel. cond., $1,300. Robert, 725-0807.

KREIDLER MOPED - West Germany, like new, no insurance required, many extras, $300. Walter, Ext. 4605 or 938-8353.

73 YAMAHA RD 350 - new pistons, rings, chains, tire, custom crash bar, $500. 286-1205.

77 CHEVY VAN - 6 cyl., automatic tinted windows, am/fm radio, sun roof, very good cond., $2,000. 399-3281.

76 MERCURY MARQUIS - 95k mi., good cond., $1,250. Ext. 4020 or 581-7656.

78 HONDA ACCORD - 79 eng., a/c, 5 spd., am/fm cass., excel. interior, body fair, $1,800. Brian, 758-1797.

82 TOYOTA COROLLA SR5 - liftback, 5 spd., a/c, am/fm radio, low mi., $4,950. 924-0933.

71 DATSUN - station wagon, runs well, body rusty, offers. Ext. 4168 or 286-3675.

76 AMC HORNET - 80k, a/t, p/s, am/fm, 2 dr., needs muffler job, $850. Ext. 3850.

77 AMC PACER - station wagon, p/s, p/b, a/c, 70k mi., excel., $1,500. 732-6870.

71 BMW 2002 - good mech. cond., bad body damage, needs restoring. 325-0609 after 7 p.m.

77 TOYOTA CORONA - wagon, new tires, battery, 5 spd., orig. owner, $700. Ext. 4730 or 821-1953.

74 CHEVY STATION WAGON - high mi., 9 passenger, class 3 hitch, some body rot. Gerry, Ext. 3751 or 399-4929.

77 FORD LTD II - wagon, V8, a/t, p/s, p/b, a/c, good cond., 49k mi., $1,800. Ext. 4045 or 289-5770 after 6 p.m.

TIRES - (2) snow, L78-15, $50; (1) reg. J78-15, $35; (2) rims, 14x6, $10. Tony, Ext. 7772.

73 DODGE - slant 6 motor and trans., low mi., $350; 1969 and 1972 Chevy truck parts, left and right fenders, hood, $20 ea. Ext. 3338.

73 FORD - F100 pickup, w/cap, V8, std. trans., $1,150. John, 924-4262.

76 CHEVY BLAZER - 4x4, Cheyenne pkg., 74k mi., body like new, new tires/wheels, roof rack, $5,000. 929-4840.

62 OLDS - F85, good cond., ran when parked 8 yrs. ago. 928-5684.

75 FIAT - 128, 4 spd., am/fm, good eng., (2) new tires, needs work, $350. Ext. 3714 or 3208 after 7 p.m.

62 CHEVY - dash complete, best offer; 14" and 15" Chevy rims, 4 ea., best offer. Joe, Ext. 2556.

76 CHEVY MALIBU - 2 dr., 6 cyl., 3 spd., a/c, good mpg., high mi., runs well, $850. Skora, Ext. 5046 or 744-9677.

TRAILER HITCH - class I, 2k lbs., fits 77-79 Caprice, Impala, Bonneville, Delta $15. Ed, Ext. 3466.

75 VW BUG - rebuilt eng., new muffler, snows, am/fm, $975. Bill, Ext. 2906 or 929-6189.

TRAILER HITCH - class 2, for mid-size GM cars, $50. Ext. 2799 or 757-1581.

75 VW BUG - new tires, new heat exchange, $500. Chris, 821-1558.

73 FORD - F250, rack body, V8, a/t, body needs work, $250. Oscar Thomas, 924-3449.

73 FORD - Grand Torino wagon, recently inspected and tuned up, $750. Steve, 744-4787 eves.

TIRE CARRIER - for front bumper, $10. Al, Ext. 7588.

77 MERCURY MONARCH - runs well, good cond., asking $1,500. 325-0750 after 5 p.m.

TRAVEL TRAILER - 17-1/2', sleeps 6, self contained, new tires & brakes, excel. cond., $2,700. Artie, Ext. 2697 or 325-0743.

79 DODGE - St. Regis, 4 dr. sed., 8 cyl., a/t, tilt wheel, vin. top, am/fm stereo, a/c, excel., $3,500. 475-7362.

71 VOLVO - 164, a/t, p/s, p/b, 4 dr., am/fm, 6 cyl., 125k, very clean, 878-2233 after 6 p.m.

65 JEEP - pickup, p/s, p/b, hydraulic snow plow, good cond., $1,000. 732-6870.

PARTS - early Buick or Jeep, V6, blocks heads, pistons etc. Bill S., Ext. 4434 or 399-6168.

67 JEEP - Commando, 4 WD, V6, 3 spd., 6' Fisher plow, many new parts, $1,600. Ext. 4460 or 475-1469.

75 CHRYSLER NEWPORT - 2 dr., high mi., runs well, asking $600 or best offer. 727-5912.

80 FORD PINTO - 17,000 orig. mi., excel. cond., garaged. 331-4768.

81 POP-UP VIKING - sleeps 6, sink, stove, icebox, awnings, $2,300. Skora, Ext. 5046 or 744-9677.

70 DODGE DART - creampuff, 62k orig. mi., 4 dr., slant 6. Ext. 7597 or 878-2233.

83 YAMAHA YZ80- bought new 5/84, mint, $700. 399-4590.

TIRES - (4) 15-38.5-15, Monster Mudders on chrome spoke wheels, 5-lug Ford, excel. cond., $550. Glenn, 924-6918 eves.

UTILITY TRAILER - made for Studebaker pickup truck, heavy duty suspension, $200. Ext. 4605 or 281-5456 eves.

79 MAZDA GLC - 4 spd., orig. owner, excel. running cond. 924-3066.

77 GREMLIN AMC - 6 cyl., red, 68,900 mi., Cragars, am/fm stereo, good cond. 585-1656.

73 OLDS - dependable transportation, $700. Ext. 2058.

80 DATSUN 310GX - clean, good cond., new muffler, tune-up, 35 mpg, $2,600. 286-1234.

79 MERCURY BOBCAT - station wagon, 2 dr., 4 cyl., a/t, 77,000 mi., $1,950. Bernd, Ext. 3405 or 3389.

GOODYEAR TIRE - J78-15, very good, $25. Tony, Ext. 7772.

77 VW RABBIT - 4 spd., many new parts, just tuned, orig. owner, $1,600. Ext. 7130 or 929-8323.

76 FORD VAN - 6 cyl., a/t, p/s, p/b. 467-0871 after 7 p.m.

79 PINTO - 4 spd., new clutch & exhaust, good cond., orig. owner, $1,500. Mike, Ext. 4605 or 281-5456 eves.

CHEVY VEGA SHOP MANUAL - $7; Class 2 bolt on trailer hitch w/head & 2-3/16" ball, $65. Ed, 929-4522.

82 TOYOTA CELICA ST - 5 spd., a/c, am/fm stereo, dealer maintained, low mi., 2 dr., brown, $7,200 neg. 924-5980 eves.

TIRES - (4) G78-15, whitewall radials w/wheels & hubcaps, very good, $80 or $20 ea. Ext. 4482.

81 FORD ESCORT WAGON - 56,000, double power, a/c, f/m, 4 spd., 4 cyl., tint, RR, $2,500; 83 Chevy Chevette Scooter, 4 spd., 4 cyl., 27,000 mi., 2 dr., like brand new cond., $3,500. 821-9296.

72 FIAT CONVERTIBLE - 60,000 mi., many new parts, $500. 878-1178.

71 TRIUMPH BONNEVILLE - 650, runs great, $600. 878-1178.

Boats & Marine Supplies

26' PACEMAKER - 1968, Sport Fisherman, 318 cu. Chrysler, f/w cooled, 110V/12V REF, VHF, DF recorder, excel. cond. Don, Ext. 5329 or 878-2215 after 6 p.m.

32' RANGER SLOOP - 14 sails, 11 winches, auto. pilot, many extras, must sell, make offer. Terry, 473-8426.

18' LARSON - 1973, Tri-hull, 1974 trailer, $300 worth of extras, $1,600. Tony, Ext. 4605.

16' GLASPAR - 1975, 40 HP Johnson, Little Dude trailer, teleflex stearing, in water, $1,000. George, Ext. 5288 or 878-8177.

BARIENT WINCH HANDLES - 10", chrome, list price $56 ea., sell for $25 ea. Brian, Ext. 2799.

21' THUNDERBIRD - 1969, fiberglass, Chevy 300, CID, I/O, trailer, extras, $2,500. 589-6181.

21' GALAXY - 1983, deep V cuddy cabin, 120 HP VOLVO, 30 hrs., port-a-potty, am/fm cassette, compass, depth, full swim platform, full canvas, like new, extras, $8,800. Ext. 3589 or 281-3635.

23' PUMA KEEL - sloop, sleeps 4, head & galley, many extras, in water, sail away, $8,500. Walter, Ext. 4605 or 938-8353.

23' CHRYSLER CABIN BOAT - 1968, fiberglass, twin Volvo engines, sleeps 4, extras, $4,500. 399-3381.

16' LONESTAR RUNABOUT - fiberglass, good cond., trailer, extras, no motor, $300. Ext. 4502.

16' PHANTOM SAILBOAT - very good cond., easy to sail, extras, $650. 689-7487.

22' CATALINA - 1982, sloop, many extras. Ext. 7518 or 589-5490.

24' CHRYSLER - w/115 HP Evinrude, power trim & tilt, sleeps 2, stove, port-a-potty, new rug, $2,300. Jim, Ext. 2050.

Miscellaneous

PVC DARKROOM SINK - corrugated bottom, 18", splashboard, 72" x 24", like new. 324-7643.

CHEST FREEZER - old and rusty but it works, $25. Walter, Ext. 4986 or 757-5478.

BOOKCASE - 3 unit combination, w/sliding doors for books, stereo, and TV, walnut finish, 30x10x63", $80 ea. 924-3066.

LAWN SPREADER - $10; lawn roller, $15; approx. 500 clay flower pots; up to 5' fir trees, you dig. $5 ea. 878-6637.

CROQUET SET - on wheels, $35; Scott lawn spreader, $30; tablecloth, double damask linen, 66x132, 12 large, hand-hemmed napkins, excel., $80; French Portier, bamboo, natural and green, door size 3'x7', $30. Corliss, Ext. 4438 or 472-1585.

TENT - North Face dome style, w/rainfly piping, nylon, like new, $195. 249-8223 eves.

COLECOVISION - plus 2 cartridges, used only a few times, excel. cond., $75; 77 Yamaha GT/MXC dirt bike, good cond., $350. 878-0480.

VERTICAL BLINDS - beige; sliding patio door, standard 6' wide by 80". Carol, Ext. 4398.

CHILD'S PHONOGRAPH - portable, excel. cond., $10; b&w TV, $10; girl's 5 spd. bike, $60. 751-3551 eves.

FIREWOOD - all oak, uncut, seasoned, 2 to 2-½ cords, $150. Mike, 821-0318 eves.

SEARS GARDEN TRACTOR - 10 hp., 36" mower deck & 42" sweeper, like new, $600. Al, Ext. 4615 or 751-8462 after 6 p.m.

DRESSER - 5 drawer, solid wood, $60; youth bed, spring & mat., $40; bed rail, $10; bicycle training wheels, $10; all in excel. cond. Inan, Ext. 3370.

COLOR TV - 13", $130; Sansui portable stereo system, $200; airpump, $5. Bernd, Ext. 3405.

WOODEN BOOKCASES - 28x15x72", $100 ea. Ext. 3695.

CONSOLE STEREO - Colonial, excel. cond., beautiful piece of furniture, $75. Larry, Ext. 2021 or 281-7240.

CONVERTIBLE LOVE SEATS - (2) can deliver, asking $65 ea.; B&D circular saw, $10. 929-8287.

WOMAN'S BOWLING BAG - $5; Atari 2600, w/joysticks, paddles and 9 games, $60. John, Ext. 5279.

COUCH - 8', contemporary; green and white, excel. cond., scotch guarded, $145. 727-2471.

GARMENT BAG - new, used once, $25 or best offer. Ext. 2914 or 286-3742 eves. & wknds.

OIL PAINTING - 30" x 26", gold trim frame, white shadow box flower arrangement by Frederico Rueeco, $35. 654-3781.

HUMIDIFIER - Devilbiss cool mist, 1½ gal., never used, list price $14, sell for $7; breast pump nurser kit, deluxe manual, used once, retail $30, sell for $10. Noreen, 281-7873.

END TABLES - Colonial, dark pine, $25 ea. Karen, Ext. 4262.

PORTABLE RADIO - am/fm, $7; Telextender, Pentax thread, 2X, $8; wood frame, 16" x 20", $8. Susan, Ext. 4267.

BEDROOM SET - dark pine, 68" hutch dresser, armoire, 2 night stands, double cannonball bed, $850; antique oak dining room oval pedestal table, (5) chairs, refinished, $500. Ext. 5221 or 475-0002.

CARE BEAR - Gram's, new, hand made, nice for a new grandma, $35. 878-9102.

GE WASHING MACHINE - heavy duty, working, $25; 25" Magnavox color console TV, remote control, working, $25. 929-4840.

POOL FILTER - 1 HP, s/s, used 2 mo., w/vacuum system, $200. 475-6938.

CHILD'S POOL - practically new; (2) aluminum folding beds for camping or spare beds. 929-8772.

TOOL SHELVES - steel, w/bins, sliding drawers, for van, $100; acetylene "B" tank, $45. Jack, 286-1268.

IBM - disk drive, ds/dd, new $100; canopy bed, white, $125; trumpet, student model, with case, $125. Jim, Ext. 3372.

DISK DRIVES - Panasonic, ds/dd, 360k, IBM compatible, half height, new, never used. Ed, Ext. 4768.

CHESS SET - interesting decorative design. K. Fuchel, Ext. 4116.

ALUMINUM WINDOW - double, approx. 60x50, w/storms and screens attached, $25; electric range, plus hood, coppertone, $50. 744-8659.

GOLF CLUBS - (4) irons, (2) woods, putter, w/bag, made in Japan, excel. cond., $60. Ext. 2823 or 3187.

LIVING ROOM SET - fruitwood, 5 pc., $300. Louise, 744-5867.

CAMERA - 110, Ultima Pro 100, $10; bar books for making drinks; 16x20 frame. Susan, Ext. 4267.

HAND CHROCHET - Easter basket & eggs, $8; yogurt maker, new $10; antique ironing board, $15; exercise rowing machine, $25; new slant board, $20. 732-3338.

LIVING ROOM - modules, 5 pc. set, black/tan/blue, printed seat covers, good cond., $250. Pat, 722-4489.

ROCKWELL NAILER - hammer & nails for putting oak flooring down, excel. cond., $50. Dick, Ext. 3499 or 589-9103.

KITCHEN DINETTE - dark pine, w/(4) mate chairs & table leaf, good cond., $100. 757-3178.

WASHER - Kenmore, 16 lb., 10 yrs. old, works, fair cond., $25; free washer & dryer. 924-4290 or 924-0697.

BEDROOM SET - hardwood, (2) bureaus, mirror, chair, (2) night stands, globe campagne bed, Eames chair. Gail, 979-9318.

PLANTS - spider, geranium, wandering Jew, peperomia, philadendron, violet, Christmas cactus, $1.50 and up. Jane, 473-0961.

FISHING LURE MAKERS - wire leader machine, #5 spoons chrome, treble hooks, fluorescent salmon eggs, plastic beads. 654-3781.

TRESTLE TABLE - solid pine, 60" x 40", 6 chairs, very good cond. Elaine, Ext. 4271 or 924-9567 eves.

SOFA - Early American, like new, $100; gold chair, good cond., $50. 924-6415.

MARQUIS DIAMOND RING - beautiful, high brilliance rating, 1 carat, appraised $3,125, sell for $1,500 firm. Mary, 286-2435.

LOCALLY GROWN TREES - Evergreens, Maples, Dogwoods, you dig, reasonable. 924-6582.

DINING ROOM SET - modern, 4' glass round table w/6 chrome chairs, $295. 751-0061.

ADDING MACHINE - Sears, electric, $20. John, Ext. 5152 or 281-2471.

DINING ROOM SET - table w/leaf & 4 chairs, china closet & buffet, good cond., must sell. Ext. 7732.

GIBSON FLYING "V" - white, Kahler equipped, w/case, mint cond., $550. Ken, 473-7460.

BABY ITEMS - walker, $15; rocker chair, $8; bathtub, $5. Bobby, Ext. 3078.

TABLESAW - 10" Craftsman w/stand, side extensions & casters, perfect operating cond., $225. Frank, Ext. 3120.

BABY CRIB - w/mattress; baby carriage; car seat; kitchen table w/2 chairs. Ext. 3803 or 467-1090.

SEARS PAD SANDER - 1/2 HP, 9" x 4-1/2" pad, $25; Scotts drop spreader, 20", like new. 589-3608.

GE REFRIGERATOR/FREEZER - 13.5 cu. ft., works well, $110 or best offer, you pick up. Ext. 3222 or 3755.

Free

VOLVOS - (2) 122's, (1) 2-dr. sedan, (1) station wagon, not running. 286-3679, 7 to 9 p.m.

ALASKAN MALAMUTE - 2 yr. old male, pedigreed, housebroken, all shots. Ext. 4482.

Yard Sales

MASTIC - Sat. April 13, 22 Robbinwood St., between Somerset & Pawnee, 10 a.m. 4 p.m., rain-date April 14.

Car Pool

STONY BROOK - car pool seeks third member. Neal, Ext. 2060.

STONY BROOK/PORT JEFFERSON - will drive or ride. Pierrick, Ext. 3464.

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 Rent

SHAWNEE VILLA - vacation resort in the Pocono's, full accomodations for 6-8 people, week starting, 6/8/85 thru 6/15/85, $500. Charlette, 348-2856 days or 286-0913 after 6 p.m.

SHOREHAM - 4 bdrm. Colonial, l/r, d/r, den, f/p, carpeting, country kitchen, dishwasher, washer/dryer, 2-1/2 baths, garage, excel. location, avail. 4/15, $1,250 pays all. 744-8659.

STONY BROOK - furnished room for rent, walk to stores, bus, 2 mi. away from SUNY, $60/wk. 928-5684 eves.

BRETTON WOODS - 3 bdrm. Townhouse, 2-1/2 baths, all appliances, in/out swimming pool, golf, tennis, bowling, Health Club, $1,100 & util., no pets. 331-4768.

YAPHANK - 4 bdrm. house, 1-1/2 baths, l/r, d/r, large kitchen, completely renovated, 10 min. from Lab, avail., April 15, $800/mo. plus util. 924-4872.

LAKE RONKONKOMA - 1 bdrm. cottage, l/r, dining area, kitchen, min. to SUNY, Smithtown, 20 min. to Lab, $475 includes elect. & water. 588-1889.

FARMINGVILLE - 1 bdrm. apt., $500 includes all plus cable. 732-2141 before 1 p.m.

SPRINGS, EAST HAMPTON - 3 bdrms., l/r, new kitchen, d/r, bath, large deck, beautiful private acre, walk to bay, 5 min. to ocean, parking sticker, $1,000, July 13 to July 28. 473-4738 eves.

For Sale

E. PATCHOGUE - S. Durkee Lane, large custom Cape Cod, beautiful 1/2 acre lot, walk to beach & marina, 4 bdrms., 2 baths, study w/fireplace, full basement, attic, garage, S. Country School Dist., principals only, $153,000. 289-9724.

DEXTER, MAINE - 18 wooded acres, borders on stream. George, Ext. 2197.

SHOREHAM - center hall colonial layout, private beach, 4 bdrms., l/r, d/r, family room w/fire place, study, $215,000. 744-5709.

ST. THOMAS, U.S. VIRGIN ISLANDS - timeshare unit, Bluebeards Castle. Steve, Ext. 5163 or 475-6964 for more info.

Wanted

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

ENCYCLOPEDIA - children set, recent edition, good cond. Merrith, Ext. 5281.

FURNISHED HOUSE - family of (6), for 1 yr., begin mid Aug., Commack, Smithtown, Stony Brook, Pt. Jeff areas, refs. avail. Jim Frank, FTS 843-6983 or 505-667-6983.

CIRCULATOR - hot water, good working cond., reasonable. John, Ext. 4491 or 744-5867.

NATURAL GAS STOVE - w/oven; refrigerator/-freezer, good cond. Richard, Ext. 3815 or 924-5329.

USED TRUNK - for college student, going away next semester, good cond. Howard, 654-5467.

WOOD PLANES - Bob, Ext. 7197 or 399-1679.

HEAVY OLD MATTRESSES - will pick up. Dave, Ext. 4254.

HOUSEMATE - to share 2 bdrm. house, Sound Beach, 20 min. to Lab., $260/mo. & 30% util. Greg, Ext. 5508 or 744-1793.

GOLF CLUBS - used w/bag for beginner. Fred, Ext. 3259.

PLAY RUGBY - a maul is a scrum for two, practice Tuesday & Thursday, 5:15 p.m. Pierrick, Ext. 3464.

BALLOON OR PARACHUTE - 500 ft^3 or larger, new or used. Steve, Ext. 2787.

In Appreciation

I would like to thank everyone who helped me after my injury on April 1 during the volleyball playoffs. I especially thank the BNL emergency team of Paul Larsen and Bill Leigh-Manuell. Their efficient and expert care is very much appreciated.

— Barbara Van Derlaske

Ads left out of this issue due to lack of space need not be re-submitted to appear in the next issue.

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