BROOKHAVEN BULLETIN

Vol. 42 - No. 40 October 14, 1988

BROOKHAVEN NATIONAL LABORATORY

Roger Stoutenburgh

Indonesians' Itinerary Includes BNL

Pausing outside the National Synchrotron Light Source (NSLS) on October 6, were Ing B. J. Habibie (front row, center), Indonesia's Minister of State for Research and Technology, and the entourage accompanying him as he toured R&D centers throughout the U.S. Flanking Habibie were (left) Robert Hughes, President, Associated Universities, Inc., and (right) BNL Deputy Director Martin Blume, and behind him (third from left) was NSLS Department Chairman Michael Knotek.

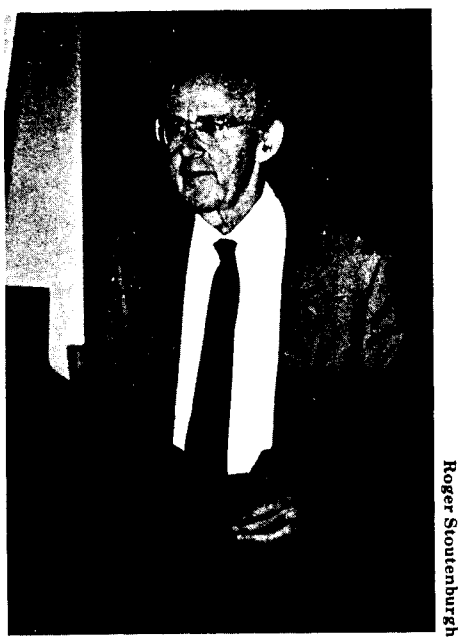
In addition to the Light Source, the group visited the Accelerator Development Department's superconducting magnet R&D facilities in Bldg. 902; and the High Flux Beam Reactor, where Habibie was particularly interested in the latest neutron spectrometer equipment. In addition to his ministerial duties, Habibie is chairman of several Indonesian government committees and serves as President-Director of the Indonesian aircraft, shipbuilding, and weapons and munitions industries.

Shaping Cures for Disease

Two-headed dragons, natural harbors, a carpenter's vise — these are all shapes contained within the antibodies and viruses revealed by "the queen of sciences, protein crystallography" that Nobel laureate Max Perutz described in a Lab-wide lecture, on October 4. From the British Laboratory of Molecular Biology, Cambridge, England, Perutz spent a week in the Biology Department's Center for Structural Biology, as the Lab's third Haworth Distinguished Scientist.

In answering the question "Determining the Atomic Structure of Living Matter: What Use to Medicine?", that he asked in his lecture's title, Perutz explained that certain viral diseases attack by matching the shape of the virus surface to part of the shape of the surface of healthy cells. If an antibody can be constructed to fit the shape of a virus surface, however, the disease can be arrested.

Illustrating his point with slides, Perutz showed that an extremely detailed knowledge of structure is now possible by the study of protein crystal structures with x-ray diffraction. This has enabled biologists to use genetic engineering to construct new antibodies against diseases ranging from leukemia to the common cold. Some of these new drugs are being tested clinically and are proving to be a success, Perutz said.



Roger Stoutenburgh

Max Perutz

Flute & Harpsichord Featured in Debut of BERA Concert Series

The notes of J.S. Bach's *Sonata in E Minor for flute and continuo* will fill Berkner Hall on Wednesday, October 19, as flutist Carol Wincenc and harpsichordist Kenneth Cooper initiate the 1988-89 BERA Concert Series.

Other duets on their program include Franz Schubert's *Sonata in A Minor,* "Arpeggione," D.821; *Folk Airs for flute and harpsichord* by Ralph Vaughan Williams; and Daniel Paget's *Romania!*

As one of the world's premier flute soloists, Wincenc will play *Syrinx,* by Claude Debussy, and *Density 21.5,* by Edgar Varese.

A featured musician in the Mostly Mozart, Santa Fe, Spoleto, Marlboro, Madeira Bach and Newport festivals, Wincenc was first-prize winner of the Naumburg Solo Flute Competition in 1978. She has appeared frequently in all of New York's important concert halls, has been in Lincoln Center's *Great Performances* series for four consecutive seasons and has collaborated with such distinguished artists as Jean-Pierre Rampal, Bella Davidovich, Jessye Norman, Arleen Auger, Elly Ameling. Emanuel Ax, and the Guarneri and Tokyo String Quartets.

Cooper, the acclaimed harpsichordist and pianist, will perform *Sonatina a usum infantis Madeline M. for solo harpsichord,* by Ferruccio Busoni.

No stranger to Brookhaven audiences, Cooper has performed here in solo recital twice previously. He has been a soloist at the Mostly Mozart Festival and is a regularly featured performer at the Santa Fe Chamber Music Festival and the Charleston Spoleto Chamber Music Festival. He has also been a guest artist with the Lincoln Center Chamber Music Society, appearing in their Bach Festival *Live From Lincoln Center.* His latest recordings are of Bach's complete Sonatas for viola da gamba and harpsichord, with Yo Yo Ma.

Kenneth Cooper

Carol Wincenc

The performance by Wincenc and Cooper will be the first in a series of five concerts for the 1988-89 series, which will include:

- Calliope, a renaissance band, on Thursday, November 17.
- The Los Angeles Piano Quartet, Wednesday, December 14.
- Pianist Jean-Yves Thibaudet, Wednesday, March 1.
- The New World String Quartet, Thursday, April 6.

All concerts will begin at 8:30 p.m. in Berkner Hall. Tickets will be available at the door for $9, general admission; $6, students and those over age 65; $5, those under 18.

Block tickets, good at any concert, may be purchased next Wednesday at the first concert of the series, at $6 each, for a minimum purchase of five tickets. They may also be obtained from any of the following:

	Bldg.	Ext.
Arnold Aronson	475B	2606
Clemens Auerbach	197D	2914
Howard Gordon	510A	3740
Geoffrey Hind	463	3400
Richard Holroyd	555A	4329
M. Kay Hunt	185	2873
Myron Ledbetter	463	3418
Benjamin Magurno	197D	5207
Edwin Popenoe	490	3622
Stephen Schwartz	426	3100

Concert Committee Needs Members

The BERA Concert Committee organizes the BERA Concert Series for the benefit of music lovers both within and outside of the Laboratory community. New volunteer members are needed on the Committee to help produce the series and assure its continued existence. BERA members — Lab employees, others who work on-site, retirees — who wish to serve on the Committee may contact Ben Magurno, Ext. 5207.

All Invited to BWIS Wine & Cheese Party

Brookhaven Women in Science (BWIS) invites all members and nonmembers to the annual Wine & Cheese Party, to be held at the Recreation Building on Wednesday, October 26, from 4:30 to 6:30 p.m.

Please come to meet the newly elected officers: Stephanie Lamontagne and Joyce Tichler, Group Coordinators; Pat Carr, Secretary; Pat Webster, Treasurer; Eena-Mai Franz, Program Chair; Carmen Benkowitz, Seminar-Lecture Chair; Eva Bozoki, Scholarship Chair; Betty McBreen, Publicity Chair; and Susan Eng, Membership Chair.

No reservations are necessary.

Coming Up

David Welch, a materials scientist in the Department of Applied Science, will deliver the next Brookhaven Lecture on Wednesday, October 26, at 4:30 p.m., in Berkner Hall. He will speak about "High Temperature Superconductors: The Current Prospects."

11 New team safety Winners

With the arrival of BIG week 12, the first quarter of the Team Safety* program is history, and, again, there is good news and bad news.

The good news is that 11 teams reached the promised table on October 10. Plant Engineering (PE) had seven winners who went one full quarter without a lost-time accident, Central Shops and Supply & Materiel each had two teams that went the quarter distance, and one Central Shops team won this week after having a strikeout back in August. Congratulations to all the winners, whose pictures appear on pages 2 & 3.

The bad news of the week is that two teams fumbled the ball on the goal line. The Plumbing Shop Team, with only two weeks to go for a touchdown, lost the ball to a back injury and now faces another ten-week game. It was the second injury for the Plumbing Team. The PE Custodial B Team also had a fumble caused by an ankle injury. Let's go team — the whole Lab is watching us!

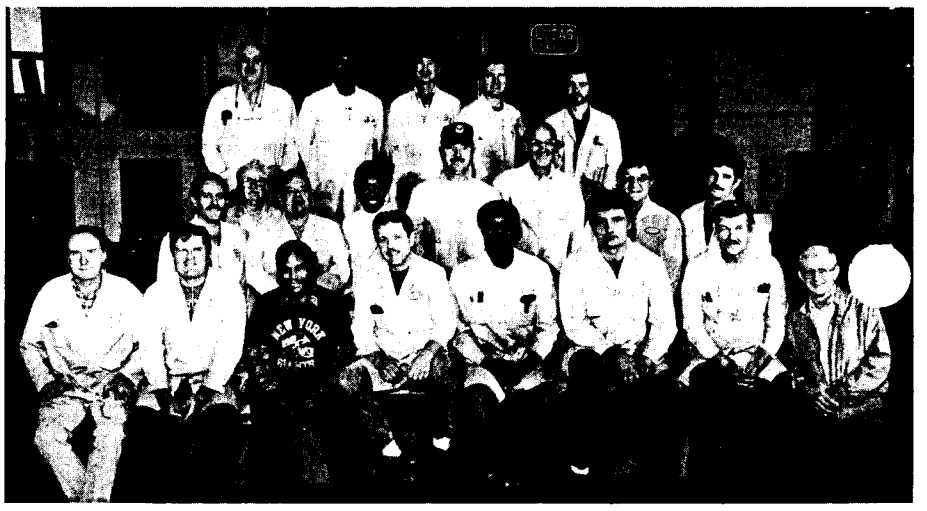
**Twenty-five teams are participating in the Lab's Team Safety Program. As a team reaches its time goals without any lost-time injuries, team members are being rewarded for their safe practices with a luncheon. Time goals range from eight to 12 weeks, depending on the team's previous lost-time frequency.*

Plant Engineering Division — Alarm Shop Team: (from left) Ralph Jimenez, Bob Hoogsteden, Steve O'Kula, Walter Annand, Bob Lapine, Harry Dawson, Gregg Tomasello, Dave Johnstone and Al DiLorenzo. Not pictured: John Read.

Plant Engineering Division — Facilities Office Assistants Team: (from left) Doris Johnston, Bill Ruppert, Sarah Ebron, Terry Clark, Arlene Benkenstein, Pauline Gagnon and Mary Quigley.

Plant Engineering Divisio
(back, from left) Peter Abrams,
left) Ken Johnson, Ken Davis, J
Not pictured: Ted Dahne.

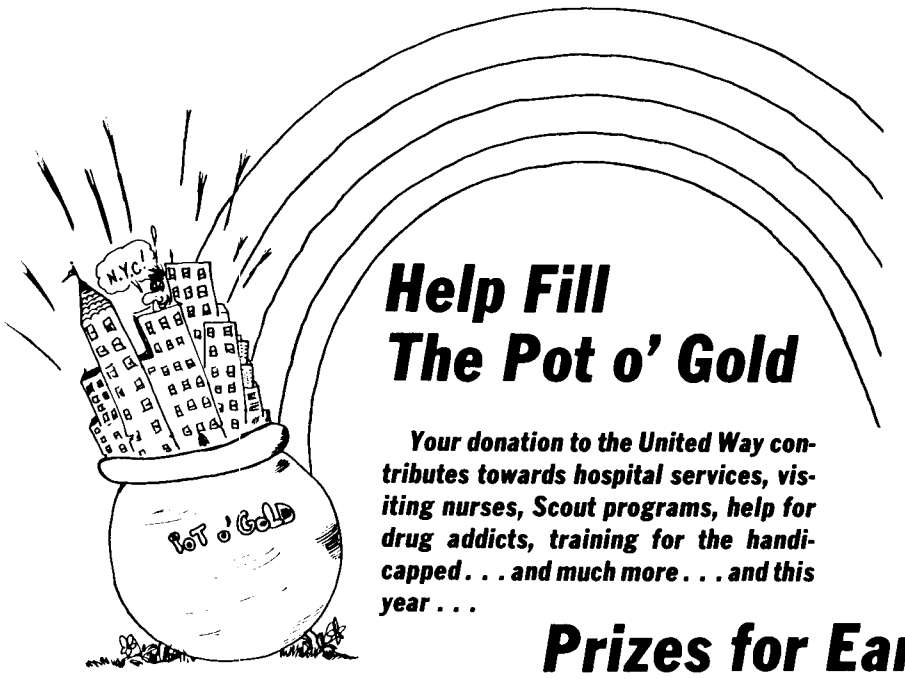
Plant Engineering Division — Rigging Shop Team: (in truck cab) Fred Ligon; (on truck, from left) Larry Johnson, Ben Lattanzio, George Oldham, Anthony Brown, Charles Johnson, Bill Washington, Eddie Hobson; (middle, from left) John Sterzenbach, Kevin Barnes; (front, from left) Fred Traxel, Tony DiPierro, Nick Cipolla, Stan Carde, Ed Sujeski, Pete Bilski, Phil Thomason, Jim Cardinal, James Nekerman, Richard Satter, Frank J. Strelecki, Roger DePuy, Frank C. Strelecki, Reginald Ellington, Ken Wenger, Ed Miezianka and Carnal Hobson. Not pictured: Ben Belligan, Charles Spillett and Coles Williams.



Central Shops Division — Heavy Machine Shop Team: (back, from left Walter Weirshousky, Frederick Molone, Shu Cheung, Frank Flegar, Donal Shea; (center, from left) Louis Pergola, Louis Maresca, George Apelskog, Le Collier, Ronald Orsini, Albert Pinto, Anthony Ievolella, David Lyon; (front from left) Richard Ryder, William Jensen, Samuel Logan, Sheldon Martin Gerald Greenidge, Octavian Iancea, Laurie Pollard and Arthur Jens. Not pic tured: Edward Carley, Joseph Carraba, Stephen Gracia, Harry Kimmerling an Clinton Sampson.

Supply & Materiel Division — Outlying Stores Team: (back, from left) Harold Hicks, John Bennett, Hank Danowski, Alvin Vestal; (front, from left) George Dioguardo, William Lebitski and William Overton. Missing: Clinton Coone, James Downing, Bayard Fenner, Frank Kedenburg, Stanley Mars, Michel Perrier, Tom Reisig and Kaye Sneed.

Central Shops Division — Department Staff Shops: (back, from left) Henry Henck, Robert Lynn, Richard Chernis, William DeCaro, Chester Bubka; William Bone (center, from left) Alfred Campbell, Robert Cunningham, Richard Rozensky, Donald Marrs, Willibald Eberl, Glaister Fraser, Eugene Kern, Walter Milouski, James Clint, Mark Walker, Gerhard Redelberger, Henry Stemm, Oscar Sanchez; (front, from left) Eric Paffrath, William Dalton, William Frank, William Sanchez, Reginald Redman, Alfred Roebuck, Carmine Della Rocca, Ludwig Frey and Raymond LoPresti. Not pictured: Robert Chanda, Walter Hulak, Otto Jacobi III, Frederick Maier, Daniel Sheppard and Robert Smol.



Help Fill The Pot o' Gold

Your donation to the United Way contributes towards hospital services, visiting nurses, Scout programs, help for drug addicts, training for the handicapped . . . and much more . . . and this year . . .

Prizes for Early

Drawing by James McCabe

Group	Representative	Bldg.	Ext.
ADD	P. Campbell	10054	4072
	C. Fridrich	902A	5459
	A. Kreisberg	902A	2040
AGS	P. Hughes	911B	4619
	N. White	10052	3962
AUI	E. Adams	134A	5221
Bio.	R. Greene	463	3389
	D. Maresca	463	3392
C&CD	J. LaForte	515	4120
Chem.	P. Haustein	555	4340
Clinic	P. Vilardi	490	3671
CSD	M. Alexoff	462	3356
	N. Satterley	462	5031
	M. Walker	903	2043
DAS	J. Giordano	318	3051
	B. Ivero	815	2208
	M. Larese	480	3508
	M. Marsch	426	3275
	F. O'Brien	51	2265
	P. Taylor	179A	2452
	A. VanSlyke	475	2387
	A. Waltz	526	2537
	S. Zuhoski	120	3359
DCP	J. Small	355	2141

Group	Representative	Bldg.	Ext.
DNE	G. Grigg	197C	5185
	J. Ramirez	197C	2119
DO	C. Kerr	460	7100
Fisc.	A. Donegain	134A	2459
Inst.	R. Machnowski	2175	535B
Med.	E. Lehman	490	3551
MIS	R. Jansson	459	3306
NSLS	K. Holschuh	725B	2839
	J. Thompson	725C	2145
PE	G. Barnett	134C	5289
	M. Barrett	452	4669
	S. Blevins	326	3084
	F. DeRosa	422	5030
Pers.	S. Foster	185	2888
P&GA	P. D'Avanzo	197B	2950
Phys.	I. Harrity	510A	2524
Reac.	S. Anderson	750	4432
	E. Kelly	703	2399
S&EP	J. Gilmartin	535A	4215
	A. Kuehner	535A	4226
SSD	J. Perullo	179B	2549
S&SD	P. Cahill	50	2740
SMD	M. Guacci	211	2976
TID	J. Morris	477A	5158

Vater & Sewage Plant Team: ' Ross, Tom Boucher; (front, from ınson, Al Roger and Nick Fanizzi.

Plant Engineering Division — Paint Shop Team: (from left) Theo Gray, Victor Cassella, John Mollica, Vincent LaForte, George Harris, Frank Mignano, James Gibbs and Arthur Anderson.

Plant Engineering Division — Steam Plant Team: (from left) Mike Kijowski, Walter Bay, Ron Wagner, Dennis Haeg, John Biemer, Chris Hanley, Craig Rochon and Chuck Schuster. Missing: Bob Brady, Robert Browngardt, Marty Kissen, John Kuzow and Peter Murphy.

—photos by Roger Stoutenburgh

:ven New team safety Winners

Plant Engineering Division — Cabinet Shop Team: (seated, center) Fred Williams; (back, from left) Chris Frosina, Richard Okula, Joe Mead, Jose Aguilar, Frank DeRosa, James Giacalone, Celso Ponce and Bruce Laakmann.

Supply & Materiel Division — Distribution Team: (back, from left) Michael Punda, Miguel Correa, Joseph Mazzarella, William James, Samuel Cortes; (front, from left) Charles Whiting, Dave Woodson, Ulises Feliciano, Jesus Marte, Patricia Jencius, Robert Tooker, Robert Dyer and Daniel Stelmaschuk. Missing: Juan Alvarez, Robert DiLello, Timothy Dwyer, Collos Lamb and Joan LeMaire.

Indoor Soccer

The BERA Soccer Club begins its indoor soccer season today at 5:30 p.m., in the gym. For more information, call Ralph Mevs, Ext. 4421, or Hanspeter Michel, Ext. 3382.

pledge card received by Monday, October ı this year's United Way fund drive ends, ıcluded in a drawing to be held on Tuesday, er 1.

Prize will be a weekend for two in New y at the Marriott Marquis Hotel — includ- ts for *Me and My Girl*, dinner, room, brunch ıing.

rous other prizes will be awarded for ır two at restaurants around Long Island.

ledges!

are being donated by Associated Universi- , and the Long Island Guards Union.

ıre information, see your area's campaign tative (left), or call fund-drive organizer ıster, Ext. 2888.

BROOKHAVEN BULLETIN

Published weekly
by the Public Affairs Office
for the employees of
BROOKHAVEN NATIONAL LABORATORY

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MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

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Arrivals & Departures

Kan Chen ..... Physics
Laura J. Cipp ..... Biology
Paul T. Singer ..... Biology
Darlene A. Peragine ..... Personnel

Departures

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

Anna M. Kuczynski ..... Fiscal

Bowling

Purple League
Dick Adams bowled a 237/224, Marsha Kipperman 217/195, Rob Simes 215.

White League
High games were rolled by Pete Stelmaschuk 221/202, Ed Meier 214, Andy Warkentien 209, Dan Harrow 206, Carl Murray 201, Nancy Erickson 190, Pat Manzella 182, Mary Scheidet 182.

Red/Green League
W. Kristiansen had a 220, M. Kelly 219, R. Mulderig 215/201, E. Meier 204, C. Scarlett 204.

Pink League
Donna Cunningham had a 176/174, Kathy Folkers 168, Renie Rosati 165, Louise Hulbert converted the 2/6/7/10 split.

Afro-American Culture Club

The Afro-American Culture Club is soliciting contributions to provide relief for Jamaicans who were devastated by Hurricane Gilbert. Donations will be delivered to the Spring Meadow School Organic Farm, St. James, which will send them to a private organization in Jamaica for distribution to remote areas of the country.

The collection point for donated items is George Grigg's office in Bldg. 197C. For more information about what is needed, call Grigg, Ext. 5185, or contact Deidre Brown, Ext. 5037, or Bruce Penn, Ext. 7213.

PSI Meeting

"Chapters and Division = Awards and Rewards" will be the topic discussed at the next meeting of the Upton Chapter of Professional Secretaries International (PSI) by Mary T. Aretakis, PSI's New York State Division President-Elect. A certified professional secretary, Aretakis began in the secretarial pool and is now secretary to the director at the Brookhaven Service Center of the Internal Revenue Service, Holtsville.

The meeting will be held on Wednesday, October 19, at 6 p.m., in the Brookhaven Center dining room.

Astronomical Society

This is the month to watch the planet Mars. The view is at its best now, and it will be 17 years before the next good view.

Tonight, October 14, the Astronomical Society invites the public to the Observatory at 8 p.m. for a general program, with special focus on Mars after 9 p.m. Admission for nonmembers is $1. Please call Keith Power, Ext. 7772, beforehand, to check that weather conditions are suitable.

AA Meetings

Alcoholics Anonymous (AA) meetings will resume at the Lab on Monday, October 17, at 5:30 p.m., and continue every Monday thereafter. All employees, others with current BNL identification cards and their spouses are invited to participate. As there is a new meeting location, please call the Employee Assistance Program, Ext. 2733, for this information. Participation in AA is confidential, so you will not be asked to identify yourself when placing the call.

To Stop Smoking, Try Hypnotherapy

Smoking is a learned habit — and you can break that habit by consciously unlearning the automatic behavior of smoking and substituting new, healthy alternatives. One way of stopping smoking is by using a combination of behavior modification and hypnotherapy, or self-relaxation techniques such as deep-breathing exercises.

If you are ready to break away from cigarettes and willing to give hypnotherapy a try, sign up for the on-site Cigarette Break-Away Workshop.

To be given by the American Lung Association and sponsored by the Health Promotion Program of the Occupational Medicine Clinic, the three-session workshop is scheduled for Tuesday, October 25, and Thursdays, November 3 and 10. All sessions will run from 5:15 to 6:45 p.m., in the North Room of the Brookhaven Center.

The first session will get you ready to stop smoking. To enable you to quit, the second session will concentrate on self-relaxation techniques, which will supplement and reinforce the behavior-modification concepts presented throughout the workshop. The final session will help you in maintaining your new, healthy habit of not smoking.

As BNL will split the $50 workshop fee with each participant, the cost is $25 per person. The registration fee includes a manual, an audiotape and other materials.

Register by Monday, October 17, by sending a check for $25, payable to the American Lung Association of Nassau-Suffolk, along with your name, Lab address and extension to Health Promotion Specialist Elaine Friedman, Bldg. 490. Registration is limited to 25 people.

Renovations Done

The renovations of the pool and gym locker rooms have been completed. Locker renewals will be coming out, but anyone with questions about locker assignments should contact Louisa Barone at the BERA Sales Office, Ext. 3347.

Cafeteria Menu

Week of October 17

Luncheons

Monday, October 17

Soup: Cream of cauliflower	(cup)	.75
	(bowl)	.95
Pot roast w/gravy & potato		3.10
Fruit-glazed ham & rice		3.10
Lite-line: Turkey salad plate		2.25
Spaghetti w/meatballs & garlic bread		3.10
Hot deli: Chicken patty sandwich		2.85

Tuesday, October 18

Soup: Cream of tomato	(cup)	.75
	(bowl)	.95
Chicken puff pastry & veg.		3.10
Beef burgundy over noodles		3.10
Lite-line: Baked skinless chicken & veg.		3.10
Hot deli: Pastrami	(bread or roll)	2.85
	(hero)	2.95

Wednesday, October 19

Soup: Beef vegetable	(cup)	.75
	(bowl)	.95
Macaroni au gratin & veg.		2.95
Veal Parmesan & veg.		3.10
Baked stuffed fish & veg.		3.10
Lite-line: Baked fish & veg.		3.10
Hot deli: Grilled Reuben sandwich		2.85

Thursday, October 20

Soup: Lentil	(cup)	.75
	(bowl)	.95
Meatloaf w/gravy & veg.		2.95
Fresh ham w/dressing & veg.		3.10
Ratatouille over rice		3.00
Hot deli: French dip on club roll		2.95

Friday, October 21

Soup: New England clam chowder	(cup)	.75
	(bowl)	.95
Seafood & pasta primavera & veg.		3.10
Beef & vegetable stir-fry		3.10
Greek pizza		2.85
Hot deli: Sausage & pepper hero		2.95

Breakfast Specials

Monday:	Sausage & egg on a roll	1.50
Tuesday:	Pepper & onion omelet	1.45
Wednesday:	Egg & cheese on a grilled croissant	1.35
Thursday:	Beef hash & egg	1.50
Friday:	Pancakes & sausage	1.35

Help Wanted At Cafeteria

Marriott Corporation, which runs the Cafeteria, needs full and part-time utility workers. Marriott Corporation is an equal opportunity employer. Anyone interested may apply in person at the Cafeteria. For more information, call Ext. 3541.

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.

2962. OFFICE SERVICES POSITION - Requires knowledge of office practices and previous experience in the use of autoprocessor microfilming camera, aperture card duplicator, IBM key punch and high-speed aperture card enlarger printer. Familiarity with film quality testing desirable. Responsibilities will include maintenance of departmental aperture card files and engineering drawing files. Alternating Gradient Synchrotron Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2963. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Plant Engineering Division.

2964. CARPENTER - Under minimum supervision lays out, constructs, modifies and maintains buildings and component parts from construction drawings, rough sketches or verbal instruction. Works with wood, wood substitutes, and combination materials and flooring, roofing and wall materials. Plant Engineering Division.

2965. TECHNICAL POSITION - Requires an AAS in electronic technology or equivalent, and experience with the fabrication and testing of integrated and discrete semiconductor circuits. Will work from electronic schematics, verbal instructions, and rough sketches. Light mechanical skills, CAD, and/or other design skills desirable. Accelerator Development Department.

2966. TECHNICAL POSITION - Requires an AAS in electro-mechanical technology or equivalent, with experience in electrical wiring, soldering and fabrication of mechanical assemblies. Will work from prints, rough sketches and verbal instructions. Must be familiar with operation of machine tools. Knowledge of electronic test instruments desirable. Accelerator Development Department.

2967. TECHNICAL POSITION - Requires an AAS in electro-mechanical technology or equivalent, and experience with the fabrication and assembly of mechanical components and structures. Will work from mechanical prints, verbal instructions and rough sketches. Must be familiar with precise measuring devices, operation of machine tools, and have strong aptitude for careful, precise work. Electronic wiring skills desirable. Accelerator Development Department.

2968. TECHNICAL POSITION - Requires an AAS in electronic technology or equivalent experience in electrical wiring and mechanical skills. Must be able to wire circuits from schematics and wire lists, and do light mechanical assembly. Knowledge of electronic test instruments and machine tools desirable. Accelerator Development Department.

2969. ENGINEERING POSITIONS (2) - Requires BS degree in mechanical engineering and 5 or more years' experience in the design and fabrication of mechanical structures. Will work on a variety of problems relating to the construction of superconducting magnets. General knowledge of cryogenic and vacuum techniques desirable. Accelerator Development Department.

2970. ENGINEERING POSITION - Requires a BS in engineering and in-depth knowledge of energy/utility systems, cogeneration, HVAC systems and controls, plus broad and demonstrated experience in conceiving, designing, estimating and implementing energy conservation projects, including modifications to existing mechanical/electrical utility and environmental systems. Will be responsible for field investigations, identifying and developing feasible energy conservation projects, preparing implementation costs, justifying requests for DOE funding, and overseeing design and construction of energy projects. PE registration is desirable. Plant Engineering Division.

2971. TECHNICAL POSITION - Requires AAS in scientific/technical field and extensive experience of which at least 3 years' must be in health physics or a closely related field. Substantial computer experience required. Knowledge of spreadsheets or data base practices or a high-level language desirable. Will provide technical assistance to environmental and personnel dosimetry services. Responsibilities will include monthly dosimetry badge exchange, writing SPIs and running computer programs. Overtime required. Safety and Environmental Protection Division.

Motor Vehicles & Supplies

79 BMW 733i - excel. cond., 4-spd., Benzi-type radio, all extras, red leather int., $11,000. 331-9792.

79 OLDS CUTLASS SUPREME - V-6, needs exhaust work, paint, runs well, $900. Ext. 3888 or 727-7075.

78 OLDS OMEGA - V-6, a/t, air shocks, new brakes, $550. 732-1913.

78 DATSUN 280Z - lt. blue, 5-spd., new eng., differential, 4 tires & wheels, batt., am/fm cass., a/c, sunroof, mint cond., $4,000. Sue, Ext. 4931.

78 COACHMAN CAMPER - very good cond., 25', sleeps 8, asking $7,000. 369-2414.

78 HORIZON - p/s, p/b, new batt., tires, needs exhaust-pipe work, $245. Ext. 3152 or 874-4845.

78 CHEVY MALIBU SW - V-8, p/s, a/c, excel. running cond., $975. Ext. 3606 or 751-7675 eves.

77 BUICK REGAL - a/t, p/b, a/c, sunroof, new tires, 80k mi., runs well, some rust, $500. 929-8912.

77 TOYOTA CELICA GT - excel. running cond., new brakes, radiator, am/fm cass., 90k mi. Rick, Ext. 3932.

77 HONDA CIVIC - runs well, many extra parts, $500. Joe, Ext. 7507 or 744-3728 after 6 p.m.

77 MERCURY COUGAR - sedan, 4-dr., a/c, p/s, p/b, new tires, $1,000 or best offer. 736-7603.

76 CAPRI GHIA - a/t, 4-cyl., new tires, p/b, am/fm, runs well, 92k mi., asking $800. 929-8912.

76 DODGE COLT - 4-dr., runs well, make offer. Ext. 7990.

75 DODGE VAN - 6-cyl., a/t, many extras, good cond., asking $800. 585-6518, M-F, 8:30 a.m.-4:30 p.m.

75 CHEVETTE - runs, new battery, 2 new tires, $75. Ext. 2529.

74 JEEP J-10 - cap, 7' plow, new electrotouch Meyers unit, extras, asking $1,500. Pete, 399-2813 after 5 p.m.

74 PLYMOUTH SATELLITE 318 - V-8, asking $295; '67 AMC Ambassador 290, V-8, p/s, 64k mi., asking $550. Ext. 4446 or 874-8631 after 5 p.m.

74 MGB GT - 72k orig. mi., very good cond., $3,100 neg. John, 286-9334.

74 JEEP CJ5 - 33" tires, new paint, runs well. Charles, Ext. 5211 or Lelie, 582-4858.

74 MERCURY CAPRI - tan, 4-spd., rebuilt engine, $650 neg. Bill, Ext. 2869 after 12:30 p.m. or 585-2563 eves.

73 CHEVY NOVA - h/b, 2-dr., s/t, asking $200. 473-8426 after 6 p.m.

73 DODGE DART - 6-cyl., 2-dr., a/t, p/s, body good, $400. 363-6753 after 6 p.m.

72 CHEVY HALF-TON PICK-UP TRUCK - stepside, 4-spd., 6-cyl., short box. Ext. 5286.

71 MERCEDES BENZ - just painted, clean in and out, 4-dr., brown, excel. cond., $4,000. Ext. 3430.

71 FORD TORINO - 2-dr., a/t, p/s, p/b, 75k mi., $450. Pete, Ext. 2498.

71 CAMARO - white w/black int., $300. Mark, 727-3673.

70 PONTIAC FIREBIRD - 350 eng., worked, 4-barrel carb., redone in & out, like new, $3,500 neg. Steve, 744-8087.

70 OLDSMOBILE DELTA - 100k mi., reliable, $400. Krish, Ext. 4025.

70 CHEVY C50 - 16' box track, 2,000-lb., lift gate, 36k mi., excel. cond., asking, $5,000. Ext. 3499 or 589-9103.

66 FORD STEP VAN - 6 cyl., 4-spd., fiberglass body, $225. Frank, Ext. 2022 or 399-4480.

55 BUICK ROADMASTER - good cond., $4,000 or best offer. Alice, 286-9483.

EQUALIZER/BOOSTER - underdash graphic equalizer & power booster, good cond., $15. Ext. 4153 or 732-5829.

YAMAHA YZ80 DIRT BIKE - 83cc, racing & beginners, asking $600 neg., Ext. 4669 or 929-3888 after 6 p.m.

TIRES - all season radials, P205-R75-14, nearly new, mounted on GM wheels, $75/pr. Joe, Ext. 3464 or 281-7683.

HONDA 650CC NIGHT HAWK - w/helmet, low mi., mint cond., asking, $2,500. Tom, Ext. 4671 or 399-6698.

PARTS - 1980 VW Dasher; 1980 Audi 4000S; 1974 Honda Civic; 1973 Dodge Dart; utility trailer, $550, assorted tires. 585-6518, 8-5, M-F.

TIRES - 4 Ford 5-lug, and rims, new, $275 takes all. Charles, Ext. 5462 or 288-2080.

CHEVETTE BUMPERS - windshields, starter, rotars, calipers, rack & pinion, best offers. Joe, 929-8321.

STANDARD TRANSMISSION - 4-spd., complete, 4/11 rear, both for $350; also 318 head, excel. cond., $75. 924-0960 after 5 p.m.

TRAILER - 4'x6', excel. cond., $500. 681-9650 after 6 p.m.

Boats & Marine Supplies

29' ULRICHSON - wood, excel. cond., f.b. fwc, 327, runs well, sleeps 5, range/oven, elec. head, many extras, must see. 732-2754.

28' CHRIS CRAFT CATALINA - 1970, f.b., D.F., VHF, cb, full canvas, sleeps 6, clean. 281-5692.

27' SPORTCRAFT CRUISER - 1985, top condition, twin 115 h.p., full equipped, all electronics, low 30's. 751-7629.

26' PEARSON - Loran, VHF, 5 sails, $11,000 neg. Ben, Ext. 4299.

22' HOLIDAY - 1982, 260-h.p., Mercury I/O, 162 original-owner hours, many extras, 589-7195 after 7 p.m.

20' GRADY WHITE GULFSTREAM - 1976, 165 h.p., I/O, easy loader tandem trailer, w/power winch, $8,500. 941-4586.

19.5' BAYLINER BOWRIDER - 1980, 140 h.p., I/O, perf. cond., extras, must sell, $2,000. 571-1736.

17' GLASTRON - 85-h.p., Mercury engine, trailer, extras, $975. 744-7947.

17' BOWRIDER - 1981, Sportcraft, deep V, 470 Mercruiser I/O, full canvas, trailer, life jackets, anchor, good cond., $5,000. 878-1580 after 6 p.m.

17' STARCRAFT BOWRIDER - 1968, 65-h.p., elec. start, Evinrude; 1974 galv. trailer, $600. Ext. 4035

12' MISTREL MAUI SAILBOAT - 1986, 2 sails, 6.0 & 5.3, plus access., $695. Keith, 864-1967.

9' SAILING DINGHY - w/sails, $600; option 2.7-h.p. motor w/boat, $200, both new. 366-0021.

SAILING DINGHY - cheap. Ext. 7178 or 744-6059.

EVINRUDE MOTOR - 4 h.p., fold-up model. Don, Ext. 5329 or 878-2215 eves.

EVINRUDE MOTOR - 2 h.p., excel. cond., best offer. Elaine, Ext. 5329.

MARINE BATTERY - 12v, alt. for Buick V-8, $20 ea. Ext. 2957.

BROWNING BOWRIDER - 1976, w/1985 Cox trailer, very good cond., $3,000. George, 744-9732.

Miscellaneous

EXERCISE MACHINE - Soloflex, extra weight straps, excel. cond., $500 firm. 277-3805 eves.

TOTAL FITNESS GYM - sacrifice, new, never used, purchase price $300, sell for $80. L. Barone, Ext. 3347.

RIDING HELMET - black velvet for horseback riding, size 7⅛, like new, $10. 751-3551.

LACROSSE STICKS - wood, $10; goalie stick, wood, $15; Goodyear tire, 10x15, Attracker, new, $65. Tony, Ext./ 2462.

BICYCLES - girl's, 24", 10-spd., Kent, 1987, $100; men's, Fuji, 10-spd., Grand Tourer, 1982, $100. 878-0953.

BICYCLE - girl's, 10-spd., Saint Tropez, good cond., $20. Ext. 3752 or 744-9699.

BICYCLE - adult, 3-wheel, 5-spd., rem., basket, $125. 585-6518, 8 a.m.-5 p.m., M-F.

PING PONG TABLE - large, new, $50; bench press & weights, $75; 5 painted oak chairs, $50. 878-6637.

BICYCLE - boy's, 20", brand-new, in box, never opened, $59. Ext. 2710 or 331-7350.

BICYCLE - 24", 10-spd., $35. 751-1884 after 6 p.m.

BICYCLE - 21", 10-spd., Centurion, $115. 929-3987 eves.

POOL TABLE, good cond., $75. Scott, Ext. 3354.

PIANO - Beckman Studio Upright, mahogony, includes matching bench, structure, action, case, hardware, keys. Asking $650. 473-8387 eves.

PIANO - antique, Marshall & Wendell, ivory keys, good sound, needs tuning, $400. Eva, Ext. 4758 or 269-6543 eves.

DOG COLLAR - new, 20"; dog tie-out & runner chain, 15', new, Ext. 2950.

BIRD CAGE - brass finish; birds, 2 McCaws, 1 blue/gold, 1 Military, w/large cages & playpens, young, talking. Duke, Ext. 2957 or Linda, 289-3586.

OXYGEN TANK - w/gauges, elec. tester for refrigeration work, amp probe volt meter, 0-300. Carol, 878-0885 eves.

COLOR TV - 21", Panasonic, good cond., $70. Ext. 3986 or 2520.

STEREO - Alpine, am/fm cass., $75. 585-6518, 8 a.m.-5 p.m., M-F.

SPEAKERS - 3-way, JBL, P.A., power head, E.Q. effects, cal zone, case, orig. $3,500, sell for $2,000. Ext. 2214.

TYPEWRITER - IBM model C, wide carriage, good cond., $50. Susan, Ext. 7716.

WORD PROCESSOR - Brother with 3.5" disks, $500 neg. 286-0969 after 6 p.m.

APPLE II GS - color RGB monitor, Imagewriter II printer, two 3.5" disk drives, 5¼" disk drive, one-year-old, $1,800. Ext. 3324.

PA SYSTEM - 2-15" Ballet-horn, equalizer, power head, effects, excel. cond., $4,000 new, sell $2,000. 369-2414.

TELECAPTION II - adapter model no. NCL200, new, asking $160. Ext. 3986 or 2520.

METERS - HP400L AC VTVM; HP415P SWR; Shallcross milliohm 670A w/documentation, $20 ea. Rich, Ext. 4172

TICKETS - Doo-Wopp Concert, Chimes, Cleftones, Del Vikings, Wrens, Bluestars, Massapequa Park, $17.50 ea., Nov. 19. D. Vail, Ext. 2067 or 2021.

BABY SWING - like new, $40; baby bed w/matress, $40; mobile, $5. Aoki, Ext. 3748.

CRIB - and misc. baby items. 473-0794.

MOVING SOUTH SALE - clothes, winter coats, knick-knacks, household goods and appliances, silverware, etc. 475-8254 after noon.

U-PICK PUMPKINS - Fri., Sat., Sun., 9 a.m.-6 p.m., Beaver Dam Rd., Brookhaven Hamlet.

Lost & Found

FOUND - gold earring at tennis courts. Franz, Ext. 7103.

FOUND - gold bracelet, call w/description. Ext. 2625.

Free

SUN DIAGNOSTIC ENGINE TESTER - needs work. Keith, 864-1967.

Yard Sale

YAPHANK - Rustic Road, opposite M.I. Country Club, 10/20, 9-5, raindate, 10/29. Ext. 7100.

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

BELLPORT - 4 bdrm., 3½ baths, Jacuzzi, walking distance of schools, bay & village, avail. unfurnished Oct. 1. 363-8936 eves.

MIDDLE ISLAND - new 3 bdrm., 2½ bath, house, 5 appl., carpeted, garage, incl. pool, tennis, and maintenance, $1,500/mo. + . 928-3728 eves.

MILLER PLACE - 3 bdrm. ranch, 2-car garage, family rm., finished bsmt., north of 25A. Ext. 3353 or 212-779-9415.

N. SHIRLEY - 1 bdrm. apt., 5 min. to Lab, quiet, separate ent., $500/mo. incl. all. 281-3479 eves.

RIDGE - studio apt., priv. ent., 5 min. from lab, $400/mo. 744-8632 after 6 p.m.

SHIRLEY - studio apt., 2½ rms., 10 min. from Lab., $450/mo., priv. ent. and driveway. Ext. 2204 or 399-0969.

S. JAMESPORT - 1 bdrm. cottage, l/r, eik, bath, porch, partially furn., near beach, 25 min to Lab, no children or pets, $500/mo + util. Walt. Ext. 2907 or 698-0576.

For Sale

EAST QUOGUE - priv. beach, ½ acre, ranch w/3 bdrm., 2 bath, l/r w/fp, d/r, eik, finished bsmt, 2-car garage, inground 20'x40' pool w/deck & patio. Ext. 4470.

MANORVILLE - immaculate 4 bdrm., 2½ baths, garage, 1½ acres, low taxes, lovinglv restored. 878-8875.

MASTIC BEACH - 3 master bdrms., l/r, large full bsmt, oil-hot water heat, eik, stove, refrig., carpeting, 3 blks. from marine, low taxes, $120,000 neg. 281-8685.

MIDDLE ISLAND - wooded & leveled 2 acres, 200' road frontage near Spring Lake golf course, zoned ⅓ acre residential by town, $74,000. P.O. Box 558, Upton, NY 11973.

NORTHPORT - contemporary, 4 bdrm, 2 baths, modern eik l/r, d/r w/fp and mbr overlooking Japanese gardens, finished bsmt, w/d, $235,000. 202-587-0308 collect.

PORT JEFFERSON STATION - 5 bdrm. contemporary hi-ranch, M/D, 3 baths, 2 kitchens, gar., vinyl siding, fenced yard, ¼ acre, mint, $174,990. 331-1523 eves.

RIDGE - 2 bdrm. townhouse, central a/c, appl., 5 min. from Lab, avail. 1/1/89, $97,000. Ext. 4676.

SHOREHAM - 3 bdrm. ranch, carpeted, pool, eik, wood/coal stove, priv. fenced backyd., 2½-car gar., low taxes, SWR schools, clean, move-in cond., $135,000 negotiable. 744-9677.

SHOREHAM - 4 bdrm. 2½ baths, Colonial, enclosed porch, all appliances, 2-car garage, ⅓ + acre, low taxes, SWR schools, $175,000. 744-0960.

RIVERHEAD - 1.4 acres, landscaped, 3 bdrm, master suite, library, brick fp, patio, skylights, bay windows & cedar paneling, 2-car garage, all appliances, reduced, $190,000. 369-1363.

Wanted

OLD LAWN MOWERS - complete. Dan, Ext. 4987 or 698-7322.

MACHINIST TUTORING - temporary, shop math, blue prints, lay-out, few times weekly, patient, reasonable. Miguel, Ext. 3884.

LEATHER SEWING MACHINE - and leather working tools. Bob, 281-2875 after 4 p.m.

METAL WEIGHTS - dumbells and barbells. Ron, Ext. 2002.

ANTIQUES - East Lake dresser and desk. Ext. 3698.

TWIN STROLLER - for 2 yr. old. and infant. Ext. 2382.

GASOLINE CHAIN SAW - 10" or 12", good to excel. Henry, Ext. 3817.

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