



At midnight Friday, the switchboard room at Staff Services was crowded with Lab and Telephone officials and installers. At midnight Ann Montore took the last call on 6262 while Anita Anger looked on.



As soon as Ann's call was completed, telephone men swarmed over the cables in back of the switchboard and cut the lines that used to serve as Brookhaven's link to the outer world.



A few minutes later, Marion Dorfer was seated at the console of the new Centrex system waiting for the first call to come in as anxious telephone men watched and waited with her.



It worked! . . . Marion looks up at Bill Webster as a telephone man breaks into a broad grin. Brookhaven National Laboratory is now on Centrex, and a new number is in use . . . just call 345-2123!



BROOKHAVEN BULLETIN

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June 8, 1972

Spray Irrigation Of Treated Sewage To Start At BNL

A five-year program to test the feasibility of transforming sewage effluent treated to various degrees into potable water by "living filtration," thus recharging the water table, is about to begin at BNL.

The effluent will be sprayed onto portions of a 20-acre area containing oak and pine trees, grassland, lowland, and cultivated agricultural land. The study will include what effect the spray has on the various forms of vegetation as well as how the vegetation affects the spray-filtration process.

As applied to the Long Island soil, the project will also determine how many gallons per acre can be effectively filtered plus how to recirculate nutrients such as nitrogen, phosphorus and potassium through living systems. In addition, the study will include an investigation of the effectiveness of a "living filter" on viruses and bacteria.

Long Island depends solely upon rainfall for its supply of fresh water. The demands of an increasing population have caused the water table to fall in recent years, and in some areas the problem is compounded by salt water intrusion. This situation has led to great concern among local residents and officials. As a result, the talents and facilities of a national laboratory are being applied cooperatively to a local community problem that could have far-reaching effects for many communities throughout the country.

The spray irrigation project, as it is commonly called, is being funded by the Town of Brookhaven, which passed a \$262,000 bond issue on March 7, and the U.S. Atomic Energy Commission through its normal funding of Laboratory operations. The authorizing contract between the Town of Brookhaven and Associated Universities, Inc. received its final signature on May 26, 1972, according to Dr. Maurice Goldhaber, Director of the Laboratory.

George M. Woodwell, senior ecologist, and Maxwell Small, project manager, will head the program. The project will also have a community advisory committee of eleven members not affiliated with the Laboratory, including: Dr. Clarke Williams, Research Administrator for the Marine Resources Council of the Bi-County Planning Commission; Mr. John Flynn; Mr. Aldo Andreoli; Mr. August Guerrero; Dr. Grant Gross; Mr. Dennis Puleston; Adm. Edward Stephan, USN retired; Mr. Alan Richmond; Mr. Phillip Cohen; Councilman Robert Reid; and Mr. Albert Macklin.

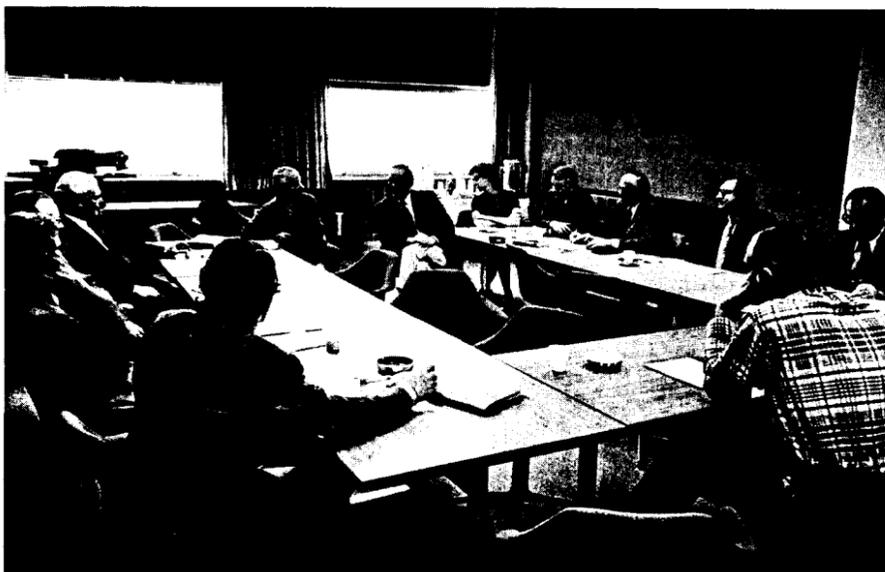
IAEA Openings

A number of openings have been announced by the IAEA in Vienna, for terms of two years, in the Department of Safeguards and Inspection. The openings are at the levels of Associate Officer, Second Officer and First Officer. Details at the Office of Scientific Personnel, 40 Brookhaven Avenue.

Spray Irrigation Approved



John Hennessy, Project Engineer (left); Max Small, Project Manager (center); and Brookhaven Town Councilman Robert Reid going over preliminary plans for the operation of the spray irrigation project soon to be started at Brookhaven National Laboratory.



Advisory Committee members and Laboratory officials meet in the Chemistry Conference room to discuss details of the 5-year project that is being run cooperatively by Brookhaven National Laboratory and the Town of Brookhaven.

Computer Network Uses 3-D TV For Crystal Studies

A program to demonstrate the feasibility and utility of a central computer facility, with the capability of providing three-dimensional views of molecular structures to remote stations via a standard telephone line network, is getting underway in a cooperative effort supported by the National Science Foundation.

A central library of all known data on the crystal structure of proteins will be stored in the computer, and any scientist with a relatively inexpensive terminal will be able to "see" in 3-D any molecule he wishes. Furthermore, he would be able to "rotate" the molecule in any direction, around any axis, to any position desired.

The three-year network development program was announced Monday by Dr. Maurice Goldhaber, Director of Brookhaven National Laboratory, which is receiving a grant of \$521,000. It will be a collaborative program with Texas A & M University, which is also receiving a grant of \$250,000 from the NSF. Dr. Walter C. Hamilton, a Senior Scientist in the Chemistry Department, will head the project at Brookhaven, and at Texas A & M the project head will be Professor Edgar Meyer of the Biochemistry Department.

The two CDC 6600 computers of Brookhaven's Applied Mathematics Department, with 128,000 words of direct access core memory, plus one million words of extended core storage, will be the hub of the new system. The system will contain a complete library on the crystal structure of proteins. A similar data bank will be established at the Crystallographic Data Center in Cambridge, England, which will also make available its extensive library of organic crystal structures.

The importance to biochemistry of crystallographic studies lies in the determination of the structures of proteins and enzymes, and the relationship of these structures to various sorts of biological activity. More recently much attention has been given to single crystal studies of transfer ribonucleic acids (tRNA), which are relevant to unraveling the problems of protein synthesis.

The precise determination of the structure of these very large molecules requires the evaluation of three-dimensional Fourier series with thousands of terms at hundreds of thousands of different grid points (points in space). Such calculations were practically impossible before the advent of very large and very fast computers. Hence, it is easy to see why crystallographers are among the major "number crunchers" at many computing centers. It also follows that many researchers who have limited, or no access to very large and very fast computers could benefit from a central library and computer facility available via ordinary telephone lines. The three-dimensional effect results when two images, one in red and one in green, are

(Continued on page 2)

International Conference at Berkner



Co-Chairmen Ronald Peierls (center) and Mark Sakitt (right) chat with Associate Director for High Energy Physics R.R. Rau before the start of the conference.

An informal conference on strange particle decays and neutrino interactions is being held June 6-8 in Berkner Hall. Attending are about 100 high energy physicists, mainly experimentalists, currently working in this particular field. The aim of the conference is to bring them together for discussion of experimental results and plans. Much of the discussion will be based on preliminary results. The participants, although coming from all parts of the U.S. and from abroad, include many who have carried out experiments here at BNL. The conference was arranged by R. Rau, M. Sakitt, and R. Peierls as shown in the picture.

J. Steinberger, CERN, addresses the first session of the conference on Strange Particle Decays and Neutrino Physics.



Conserve Power

A recent survey conducted by the Joint Board on Fuel Supply and Fuel Transport, under the direction of the Office of Emergency Preparedness, Executive Office of the President, has indicated that critical shortages of electric power are possible in many areas of the country this summer.

In the Long Island area reserves are slightly higher than last year. Nevertheless, it is important to conserve electrical power wherever possible. Reducing power consumption will help to prevent brownouts and blackouts, as well as conserving natural resources and aiding the environment.

Some specific actions each BNL employee can take to conserve electric power include:

- Keep windows and doors closed when air conditioning units are in service.
- Turn off window air conditioning shortly before the end of the workday.
- Turn off lights when leaving the office or other work areas.
- Turn off electric fans, coffeemakers and other appliances when not required, especially during peakload periods.
- Where possible, schedule the use of all equipment that consumes electricity or generates heat at times other than the periods of peakloads.
- Do not turn on equipment such as Xerox machines, fans, etc., until needed. Shut equipment off when it is no longer needed.
- Draw or partially close blinds, shades and draperies on the sunny side of the building.

Administrative Interns Selected



Two Brookhaven employees have been selected from many applicants to initiate a training program in management techniques. Glenn Tinnie, Applied Math, and Lee Shelby, Office of Scientific Personnel, will start a program on July 1. Laboratory Director Maurice Goldhaber (third from right) congratulates the selectees, at a ceremony outside the Administration Building. Left to right: Associate Director Vincent O'Leary, Tinnie, Shelby, Goldhaber, Deputy Director George Vineyard, and Program Administrator Alf Christoffersen.

Computer Network

(Continued from page 1)

viewed through special glasses with one red and one green lens.

The capabilities of the system as it now exists on a small scale include the ability to display in 3-D a complete molecular structure containing up to 500 atoms, which can be viewed from any direction, and can be rotated in steps around any axis, or to any position, on command from a teletypewriter. This is the next best thing to giving the researcher an actual model of the molecule to hold in his hands, which could be very expensive and take up a lot of space.

The proposed network had its beginnings in a system called BRAD (Brookhaven Raster Display) that has been operating successfully with a Sigma 7 computer at Brookhaven National Laboratory since 1968. Developed with AEC funds by the Laboratory's Instrumentation Division, BRAD is used in high energy physics research for on-line computer analysis of bubble chamber particle tracks. The application of this scheme to the presentation of biological structure information was made by Professor Meyer, who has spent the past several summers at Brookhaven, and who will continue to work closely with Dr. Hamilton in the further development of the expanded network.

As a result of the initial development of this system at Brookhaven, a commercially-produced unit from Syntax Analytical Instruments, Inc., of Palo Alto, California has already been installed at Texas A & M University.

The proposed network includes three central terminals: one at Brookhaven National Laboratory, one at Texas A & M University in College Station, Texas; and one in the Laboratory for Molecular Structure at the Institute for Cancer Research (ICR) in Philadelphia. ICR has an active crystallographic group (headed by Drs. J. Glusker and H. Berman) but no large in-house computer; thus it should provide a very good test of the remote capabilities of the system.

According to Dr. Hamilton, there are more than 200 potential remote terminal users in the United States. He stated that successful development of the new system would bring to the structural chemist in a small institution the power of the largest and fastest computers, and greatly enhance his capabilities in the solution and interpretation of biochemical molecular structures.

World of BNL Doubles Broadcast Area

Starting this Sunday, June 11, the World of BNL will be broadcast over stations WHRF (1570 AM) and WRCM (103.9 FM) in Riverhead, in addition to WGLI (1290 AM) in Babylon and WBLI (106.1 FM) in Patchogue.

This week the guests will be Dr. Walter Hamilton of the Chemistry Department and Professor Edgar Meyer of the Biochemistry Department of Texas A&M University.

The subject will be the development of central computer 3-D TV monitor network (see story, page 1).

The times of the broadcast of the fifteen minute program are as follows: WBLI-FM 8:15 a.m.; WGLI-AM 11:15 p.m. WHRF-AM and WRCM-FM are not known at press time for the *Bulletin*, but a spokesman for the stations stated that the listing would be sent to Newsday, where hopefully it will appear in the radio show listings for Sunday.

Summer Pool Schedule

The new summer schedule will go into effect on June 19th. Details will be in next week's *Brookhaven Bulletin*.



Published Weekly for the Employees of Brookhaven National Laboratory

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Public Relations Officer

Working Environmentalists



Taking a break during a marathon meeting at Berkner Hall are these contributors to the World Environmental Conference which convened in Stockholm, Sweden on Monday. The Brookhaven meeting brought together 30 scientists from Europe and the Americas who compiled reports and recommendations to be presented to the United Nations sponsored meeting on "Man and his Environment." The Brookhaven group composed, edited and reproduced a voluminous report from May 24 through 26, which was edited and printed during the Memorial Day weekend in order to be ready for the opening of the Stockholm meeting. Shown above are: Dr. Edward Goldberg, Chairman of the NSF-IDOE Marine Baseline Studies Workshop; George D. Grice, Program Manager for Environmental Quality; and George Woodwell, representing Brookhaven as host to the meeting.

Administrative Change

Dr. Paul A. Michael is appointed, effective June 1, to the position of Acting Leader of the Meteorology Group in the Department of Applied Science. He is assuming the duties of Maynard Smith who is leaving the Laboratory on May 31, 1972. The Meteorology Group will continue within the Radiation Division.

Dr. Michael joined the Laboratory staff in 1958 as an Assistant Physicist to work with Jack Chernick on Theoretical Reactor Physics. In 1970 he started work on a cooperative program between Meteorology and the Radiation Division of the Department of Applied Science and has been active in the group ever since.

Blood Program First

This year BNL's Blood Program will score a first in Suffolk County. During the two-day Bloodmobile visit on June 29 and 30, blood will be fractionated in the Medical Department by Blood Program technicians shortly after it is donated in the Gymnasium. This means that within hours after blood is collected, our local hospitals will be supplied with needed platelets, packed red cells, and frozen plasma in addition to making available a supply of whole blood.

Blood that is fractionated means that a donor can conceivably help three people for only one pint of blood donated. Last year a limited amount of blood drawn in "quad packs" was flown via helicopter to New York City, the closest location at which the Greater New York Blood Program has equipment for making components.

Please remember to return your pledge card by June 12, and remind others of our opportunity to reach a goal of a thousand donors.



Greater New York Blood Program volunteers arrange Quad Packs before donors arrive.

Ellington Band Here Tuesday



Final plans are underway as the Special Event Committee is hard at work readying the Theater for the night of June 13. The last minute details run the gamut from the custodial staff doing their usual right up-to-the-minute job, to the stage crew moving plaforms, to sound men setting up microphones, to the recruiting of the usual attractive bevy of usherettes. It is all, however, very worthwhile as we wait the arrival of one of show business' few remaining living legends, Duke Ellington and his internationally famous orchestra. There are some tickets left, so don't miss out. Employees and family \$5.00; general public \$6.00.

Golfers A-Go-Go

The annual American Cancer Society's Pinter Tournament of Stars, featuring touring pros, celebrities, and amateurs, will be held this year on July 3 at the Colonic Hill Country Club. The pros will be competing for \$35,000 in prize money.

See Joe Namath, Rick Barry, Rocky Graziano, Tom Poston, Bob Tucker, Don Maynard, Cazzie Russell, Dave DeBusschere, and many more celebrities team up with pros and amateurs in what will be one of the greatest days of golf on Long Island all year.

Tickets are available in the BERA office at \$8.00 each, and every one helps the fight against cancer.

Talented Youngsters



Nick Combatti (right) Biology, shows Talent Search winners around BNL's greenhouses in the Biology Department. The visit of the science winners and their teachers was arranged by the Naval Reserve Unit which meets on site.

Cooking Exchange

The Cooking Exchange's annual international dinner will be held this evening at the Brookhaven Center. Invitations have been extended to all those who actively participated in the cooking exchange during the past year. The guests will happily sample scores of dishes which they will bring with them. Cocktails and wine will be available for purchase.

Met Baseball Tickets

Met baseball tickets are still available for the following dates in July and August.

July	4 - San Diego
	29 - Montreal
	31 - Montreal
Aug.	2 - Philadelphia
	16 - Atlanta
	18 - Cincinnati
	21 - Houston
	22 - Houston

Tennis Anyone?

Now that the weather has warmed up, it is anticipated that the tennis courts will be used by more players. Because of the increasing popularity of the sport, more people are expected to be on the courts this year than ever before. Therefore, there will be times when all six courts are in use and players will be waiting on the sideline for "their turn."

The tennis committee has considered this problem, which could be solved by a reservation system and limitation of the sign-up privilege to one-hour periods, as is done elsewhere. However, the tennis committee feels that such restrictions are not necessary if all players are aware of the problem and work toward its solution with the spirit of cooperation and true sportsmanship which is traditional among tennis players.

It is the belief of the tennis committee that the practice, long established at BNL, should be maintained. The tennis courts are not scheduled or reserved except for the finals in the annual BERA Tennis Tournament. The courts must be used on a first-come, first-served basis.

To implement this policy, family members are requested to schedule their tennis play for times other than the noon hour and immediately after five. The majority of employees have limitations on their time for tennis and it is only fair for the non-employees to make use of the courts during other hours.

When all courts are in use, singles games should be deferred in favor of doubles. It is suggested that singles players limit themselves to one set and then offer to play doubles with those waiting on the sidelines.

Individuals hitting against the wall should defer to those waiting to play on the courts.

Arrivals & Departures

Arrivals	
Harold W. Avent.....	Director's
Howard M. Biggs, Jr.....	PEP
William A. DeCaro, Jr.....	Central Shops
Manuel Garcia.....	Physics
Mary J. Glynn.....	Staff Services
John N. Hessinger.....	Physics
Robert A. Posage.....	PEP
Charles J. Thomas, Jr.....	Physics

Departures	
Jeffrey E. Davis.....	HPS
John J. DeVries.....	PEP
Santo J. DiNaro, Jr.....	Mech. Engrg.
Gyles Harrison.....	PEP
Peter E. Haustein.....	Chemistry
Richard M. Lindstrom.....	Chemistry
Jorge Llacer.....	Instrumentation
Andrew J. Manning.....	DAS
David Rorer.....	DAS
Maynard E. Smith.....	DAS
Joseph D. Yourno.....	Biology

Theater Group Notice

The annual meeting of the BERA Theater Group will be held on Monday, June 19, at 8 p.m. in the Recreation Building. The agenda will include:

1. The approval of the plays for next year's production.
2. Planning of the summer production of Summertree.
3. Election of Officers - the Nominating Committee's proposed slate is as follows:
 President - Eena-Mai Franz
 Vice President - Bruce Martin
 Secretary - Mary Kinsley
 Program Chairman - Open for Nominations
 Advisory Chairman - Rita Straub
 House Chairman - Dave Miller
 Publicity Chairman - Sue Kinsley

Nominations will be accepted from the floor.

Jet Football Ticket Reservations

The Recreation Office door will be open from 7:30 a.m. to 8:30 a.m. Monday morning, June 19, to take ticket orders for the 1972 Jet season games at Shea Stadium.

BERA has 20 seats for each of the seven home games located in Reserve Section No. 23, which are priced at \$8.00 each.

In an effort to make tickets available to as many interested employees as possible, the following sales procedure will be observed.

1. Tickets are intended for the employee and his immediate family. It is understood that a single employee might wish to purchase a ticket for his or her escort.
2. An employee is entitled to purchase two tickets for one game only. (This restriction may be lifted if warranted by sales).
3. Ticket reservations must be made in person. No telephone orders will be accepted.
4. Payment must be made at the time of order. Check payable to BERA, please.
5. Tickets will not be returnable or acceptable for refunds or exchange at the Recreation Office. Refunds or exchanges should be made at the Ticket Office at Shea Stadium.

Home Schedule

Sunday	October 8	Miami
Sunday	October 22	Baltimore
Sunday	October 29	New England
Sunday	November 5	Washington
Sunday	November 12	Buffalo
Sunday	December 3	New Orleans
Sunday	December 17	Cleveland

Locker Room Revisions

The men's lavatory facilities at the Gymnasium-Swimming Pool complex are currently undergoing revisions which are scheduled to be completed by the end of June.

The Swimming Pool and Gymnasium will remain open as scheduled during this period using the following system:

Men's Facilities - Gymnasium locker and shower room will be open. Men may use the ladies' lavatory facilities.

Ladies' Facilities - The ladies may use the shower-locker and lavatory facilities at the Swimming Pool.

Gymnasium Lockers

All lockers in the gymnasium-swimming pool complex are at this time being re-registered. Please call or stop at the Recreation Office to re-register yours if you have not received a notice in the mail.

The Duke . . .

Which Duke? The one and only Duke Ellington, of course. June 13th. Why? Because that is when the Duke will be at the BNL Theatre. So What? So go over to the Rec Office in Personnel and buy a ticket or two or more. What are you waiting for?

Baskin Exhibit Opens Monday

A significant one-man show of the works of Leonard Baskin will open in Berkner Hall next Monday evening, June 12, and run for approximately two weeks. Sponsored by BERA, the exhibition will include sculpture, drawings, etchings, woodcuts, and books designed and illustrated by Baskin.

Leonard Baskin holds a unique and highly respected position in the artistic world. He is one of the very few artists of major significance who have maintained the realistic-humanistic traditions that are at the core of the development of western art. He enjoys international reputations as a sculptor and as a graphic artist, particularly for his woodcuts and etchings. He is also a draftsman and designer and is the active force behind the Gehenna Press. Baskin's significance is not explained solely by his acknowledged technical brilliance and versatility, but more by the combination of these and the content of his work.

In virtually all his major work, Baskin's primary concern is the condition of man; his loneliness, his finiteness, his links with the animal world, and particularly his capability for transcending his condition. His subjects are often historical characters but never heroes in the parochial sense - rather in the sense of the expression of the human spirit. There are sculptures in this show of Lazarus, Phaedra and of a famous Indian Chief, Mandan. The drawings include representations of St. Jerome, Oedipus and Christ. He seems particularly sensitive to the idea of art itself being a means of elevation and of the artist as being capable of lifting the spirit. Among the graphics in the show are sensitive portraits of the painters Eakins, Velasquez, Goya and Masaccio.



L. B. A. E. T. S.
49.

Baskin - Self-portrait

An extraordinary thing about Baskin's men of the spirit is that they are no less men of the flesh. It is because of the felt immediacy of death and constriction that life and freedom take on such effective quality in his work. Baskin expressed this himself when he wrote, "Man must rediscover man, harried and brutalized, distended and eviscerated, but noble withal... and enduring in the posture of love".

The exhibition has been made possible by the generous cooperation of the Kennedy Galleries and Associated American Artists in New York City. A number of private collectors have also loaned works to the show which has been prepared by the BERA Art Committee.

The exhibition will be open from June 13 to June 21, weekdays, 11:00 a.m. to 5:00 p.m. It will also be open during the evenings of June 13, 20, and 21, from 7:00 to 8:00 p.m. An opening reception will be held on Monday June 12 at 8:30 p.m. All members of the Brookhaven community, their families and friends are invited to attend.

Radio Club News

The regular meeting of the Radio Club will be held at the Recreation Hall on Thursday, June 8, at 8 p.m. Final Field Day plans will be discussed.

Selected Reading

- Sci. News 101, May 13, 1972
Scientific professionalism: An interview with Alar C. Nixon. 313-14
- New Scientist 54, May 11, 1972
Spiegelman's descent from the ivory tower. G. Chedd. 323-6
What kind of graduates do we need? D. Davies. 326-8
- New Scientist 54, May 18, 1972
China's technological development. G. Dean. 371-3
Where there's muck there's brass! A. Conway. 376-8
Fusion power politics in the US. M. Kenward. 380-2
Must we waste rubbish? J. Tinker. 389-90
- Science 176, May 5, 1972
The overmedicated society: Forces in the marketplace for medical care. C. Muller. 488-92
Nuclear reactor safety: At the AEC the way of the dissenter is hard. R. Gillette. 492-8
NAS: Academy votes NRC changes, new formula on classified research. B.J. Culliton. 499-501
- Science 176, May 12, 1972
On the impact of the computer on society. J. Weizenbaum. 609-14
Unionization: Scientists, engineers, mull over one alternative. D. Shapley. 618-21
- Science 176, May 19, 1972
Professional societies: Identity crisis threatens on bread and butter issues. D. Shapley. 777-9

Wrong Extension?

BROOKHAVEN BULLETIN classified ads in this edition list telephone extension numbers that will no longer be correct after Saturday, June 3. If you have difficulty reaching an advertiser after the changeover to Centrex, call the BULLETIN, Ext. 2347 for the correct extension.

Cafeteria Menu

Week Ending June 15, 1972

Friday, June 9	
Manhattan Clam Chowder	
Roast Beef w/ Brown Gravy & 1 Veg.	.85
Fish & Chips w/Tartar Sauce	.85
Poached Haddock w/Creole Sauce & 1 Veg.	.90
Monday, June 12	
Chicken Soup	
Barbequed Roast Pork & 1 Veg.	.90
Jumbo Knockwurst & Sauerkraut w/Mashed Potato	.80
Macaroni & Chopped Beef, Spanish Style & 1 Veg.	.85
Tuesday, June 13	
Purée of Split Pea Soup	
Beefsteak Pie w/Vegetables & Biscuit Crust	.99
Southern Fried Chicken & 1 Veg.	.85
Stuffed Cabbage & 1 Veg.	.85
Wednesday, June 14	
Scotch Broth	
Beef Hash w/Chili Sauce	.80
Broiled Link Sausage w/Scrambled Eggs & French Fries	.90
Seafood au Gratin Casserole	.90
Thursday, June 15	
Navy Bean Soup	
Beef Chcp Suey on Rice	.90
Sliced London Broil & 1 Veg.	.95
Cheese Omelet w/Bacon Strips & French Fries	.80

Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

- For Sale: Auto & Auto Supplies
 For Sale: Boats & Marine Supplies
 For Sale: Miscellaneous

- Wanted
 Carpools
 Lost & Found

Check the heading applying to your ad.
Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

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

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue

Classified Advertisements

Employment Notices

The BROOKHAVEN BULLETIN each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once. For further information, please contact Employment Supervisor, Ext. 2109 or 2513.

HEALTH PHYSICS TECHNICIAN - Shift work. Health Physics & Safety.

CUSTODIAN (2) - Plant Engineering & Planning.

WAREHOUSEMAN (1) - Supply & Materiel. Application deadline: June 20, 1973.

Autos and Auto Supplies

70 VW CAMPER - 10,000 mi. Elaine, 751-2067.

68 PLYMOUTH VALIANT - Green, 4 dr, 6 cyl, manual shift, r/h, good cond. \$700. Arnie, Ext. 2449.

64 CORVAIR - Good body, new brakes, shocks & batt, good rubber, extra eng & parts incl. \$100. N. Hoffman, Ext. 4289.

14" WHEELS - Chevy or Tempest, good cond, \$5/pr; 12v gen, GM type, \$8. Bob, Ext. 2450, 289-0357.

TIRES - 1-6.50x16, \$8; 1-7.60x15, \$6; 1-8.85x15 (snow), \$6.50; 1-8.20x15, \$6. Whitey, Ext. 2907.

69 AMBASSADOR - Air cond, V8, auto trans, ps/pb, 4 dr, 52,000 mi. \$1200. 878-0829 after 6.

66 MUSTANG - 6 cyl, std trans, good cond, \$525. Ext. 2906, 473-9527.

RIDE IN LUXURY - 66 Buick Electra conv, am/fm, air cond, all pwr options, reasonable. M. LeVine, Ext. 4581.

60 CADILLAC FLEETWOOD - Good for parts, you tow away. \$50. Tom, 878-0249.

65 RAMBLER CLASSIC - 4 dr, 6 cyl, manual shift. \$100. Hoffman, Ext. 2443.

63 CHEVY - 2 dr, 6 cyl, auto trans, fair shape, may need valve job. \$50. B. Style, Ext. 2907.

2-14" RIMS W/TIRES - 5 holes. \$7. O. Booker, Ext. 2401.

64 FORD COUNTRY SQUIRE - Auto trans, V8, good cond. \$275. Bob, Ext. 4490.

68 FIREBIRD CONV - 350 eng, ps/pb, auto trans, new brakes & tires, stereo, alarm, excel cond. \$1695. Wally, Ext. 4046, 744-0967.

71 SUZUKI MOTORCYCLE - 500 cc, 2200 mi, excel cond. \$900. 475-4557 after 5.

64 FALCON - 6 cyl, std shift, good eng & mech cond. \$275. 475-3308 after 6.

60 JEEP STATION WAGON - 4 w/d, new eng 7000 mi, rebuilt trans, new tires, new brakes, new paint job, plus extras. \$900. A. Como, Ext. 4127, 281-8274.

62 RAMBLER - 2 dr, 6 cyl, manual shift, good tires, batt, reliable, runs well. \$150. Al, Ext. 4473.

2-7.00x14 TIRES - Good cond. \$4 ea. Leon, Ext. 316.

4-6.50x13 TIRES - Like new, compl w/wire wheels & '60 Sunbeam Alpine in running cond. \$75. 473-7739.

68 VW SQUAREBACK - 50,000 mi. \$850. JU8-7989.

2 ATLAS ALL WEATHER BELTED SNOWS - On Ford rims, balanced, F70-15 (8.00x15). \$50, or swap for chrome rims. Ed, 698-2781.

67 PONTIAC CATALINA - Air cond, ps/pb. Ext. 3053, 286-0012.

69 CHEVY IMPALA CONV - Ps/pb, air cond, really like new, must see to appreciate. Carsten, Ext. 3593.

70 VW BUS - Green, am/fm radio, step. \$2000. Ext. 7657, 744-5741.

Boats and Marine Supplies

16 1/2' GRADY-WHITE BOAT - 35 hp Mercury & Hols-claw tilt bed trailer, many extras. \$850. R. Lundgren, Ext. 2434.

3 1/2 HP OUTBOARD MOTOR - Firestone, runs well. \$25. 581-0932 after 6.

16' FIBERGLASS KAYAK - One man touring model w/ paddles, red & white. \$50. Levine, Ext. 4642.

25' OWENS EXPRESS CRUISER, 1961 - Sleeps 4, stand up head, dinette, galley, depth finder, 185 hp, ready to go. \$2250. Ext. 4522, 475-6559.

16' WOLVERINE - Elec start, steering controls, lights, extra tank, 55 hp Johnson nearly new, 2 sets water skis, harness. 286-1132.

30' GAILBRATH - Fly bridge 1968, 265 Palmer FWC, monel tanks, outriggers, cedar hull, oak frame. \$3950. 273-4575 eves.

SEASNARK - Sheathed in epoxy & glass, ready to sail. \$70. H. Halama, Ext. 4730.

14' BLUE JAY - Fiberglass, excel cond, 2 sets sails, 1 spinnaker, w/trailer. 286-8744.

23' CENTURY RAVEN - 170 hp inboard, 10 yrs old, best offer. Tom, 289-0621.

Miscellaneous

ALUM LADDER - Ext to 24', \$10; 2 salt water rods & reels, \$5 ea; microscope, \$6. 589-4284 eves.

RECORDS - 78's & LP's, classics, oldies, from 30's, 40's; 20 yrs National Geographics. 589-4284 eves.

14 K MEN'S RINGS - 9 new modern rings w/diamonds, blk stars, lapis, below wholesale price; will sell separately. Ext. 4134.

APACHE TRAILER - Tent camper for rent. \$9/day; \$55/wk. 727-5848.

71 HARDTOP TENT TRAILER - Used 7 times, sleeps 6, extras, elec brakes, 2-20 lb gas tanks, stove, sink w/outside hook-up, ice box, 110 & 12v system, 9000 btu heater. \$1200 firm. 475-3375.

CESSPOOL OVER 1/2 FULL? - You may need chemicals now! \$25 for 15 gal, special for Lab employees. 289-0565.

RIDING LAWN MOWER - Compl overhauled this spring, excel cond. \$95. Bob, Ext. 4551, 289-2159.

4 PC DRUM SET - Excel cond, \$155; microphone, \$8; Tyco HO Tracks, excel cond, like new, way over 30', \$20; PA Bogen, new, \$85. 878-2486.

PINK STEP STOOL - \$4; metal picnic cooler, \$4; old maple love seat w/maroon velvet cushions, \$8. 289-1754.

PRESTO ELEC FONDUE - New, \$15; Westbend elec frypan, \$10. Schubert, Ext. 4046.

SLEEPING BAG - \$10; lg backpacker alum frame & canvas pack, \$15; med frame, new, \$5. Schubert, Ext. 2441.

4 GOLF CLUBS - Nos 1,3,4,5, excel cond, wood; 1 Rekokut 33 1/2 rpm turn table compl, 63 Econoline van. D. Clareus, Ext. 4227.

IMPORTED BABY CARRIAGE - Converts to car bed, excel. Sutherland, 286-0612.

FREE - 6 wk old puppies, can be seen 12 mi from Lab. Mrs. Carroll, 698-2605.

FREE - 1 male & 1 female German Shepherd mixed puppies, 6 wks old. 585-3290.

GERMAN MADE VIOLIN - Full size, good orchestral instrument, moderately priced, rectangular case & bow incl. Joel, 286-0864, 286-8962 after 5.

DANISH MOD FURN - Din rm, desk, design research chests. 286-2265.

SHETLAND PONY - W/tack. \$25. LT9-7504.

CATS, CATS, CATS - Urgently need homes, moving soon, 5 to choose from, Angora, 1/2 Siamese, alley cats, neutered, 1 yr old. Richard, Ext. 4389.

SLATE POOL TABLE - 5 x 9, w/subways, all access incl. Ext. 3672.

WOOD STORMS & SCREENS - 2 ea 31 x 55, 1 ea 24 x 55, 1 ea 31 x 37 1/2. \$1 ea. J. Olson, 289-8629.

PIANO - Handsome old mahog Kranach & Bach 6' grand, action recently repaired, best offer over \$450. Ext. 2441, 286-0932.

GARAGE SALE - Fri 6/9, Sat 6/10 & Sun 6/11, 10 am-4 pm, furn, tools, glassware, etc, 16 2nd St, Bellport. Ext. 2887.

SIAMESE KITTENS - 2 males & 1 female left, avail after 6/14. G. Irving, Ext. 2914.

OAK FIREPLACE LOGS - Custom cut, split, delivered & stacked, well seasoned. Ken, 289-8212 eves.

YARD SALE - All asstd items, Floyd Bennett Dr, Sound Beach, 6/10/72, The Munstermans. Ext. 670.

KITTEN - Adorable, 5 wks old, free. Ext.2797.

.177 CALIBER OLYMPIC GRADE AIR PISTOL - Micro sights, walnut target grips, mint cond. Ext. 2482.

PIANO - Kohler-Campbell console & bench, walnut finish, early Am, full keyboard & strings, nearly new. 286-8092.

USED KITCHEN SINK - White porcelain, compl w/faucets & drain. \$10. 878-1486.

MOTORCYCLE WINDSHIELD - & apron. \$15. LT9-7504.

SAMOYED PUPPIES - 3 mos old, AKC reg, shots. \$100. LT9-7504.

2 EA DBL HUNG WINDOWS - W/frames, 2 over 2, approx 40" x 54" overall, used but in good cond, screens incl. \$10 ea. R. Brown, Ext. 2260, 286-1214.

ANDERSON AWNING WINDOW - W/hardware, approx 17" x 19 1/2", #314, \$10; back doors w/frames, 6'8" x 30", 3 windows in door, good shape, \$10 ea. R. Brown, Ext. 2260, 286-1214.

10x16 TED WILLIAMS (SEARS) CABIN TENT - Rm divider pole & stake bag, nylon floor 6" up wall, awning over door, tent is new. Orig cost \$179.88, now \$110. Walter, Ext. 567.

DINETTE FORMICA TABLE - 4 chairs, excel cond, \$25; leather top coffee table, \$10. 585-1707.

HOTPOINT AUTO WASHER - New, 16 lbs. Retail price \$249, sale price \$189. JU1-5786.

PUMA WHITE HUNTER HUNTING KNIFE - Fancy sheath, wood gift box, mint cond; 5" & 10" Post Versalog 23 scale slide rules, perf cond. Ext. 2482.

HOUSE & PATIO FURN - Drapes, etc, on Sat 6/10, 10 am - 5 pm. Ext. 4622 for directions.

COMPL RCBS ROCK CHUCKER - 38 wad cutter reloading outfit & bench, press, dies, scale, measure & all access. Ext. 2482.

8 TRACK STEREO TAPE DECK - New. \$30. W. Lundgren, Ext. 7526, 585-3794.

SHETLAND FLOOR POLISHER - All attachments. \$5. Bob, Ext. 2450, 289-0357.

CHILD'S CAR SEAT - Ford tot guard, less than yr old, 744-8507.

68 TRAVEL MATE - Tent trailer, hdtp, sink, stove, ice-box, spare tire, awning, extras. \$950. Ext. 4290

TARGET REVOLVER - S&W K38, 6" barrel, target hammer, trigger & custom grips, mint cond. Ext. 2482.

PENN 4/0 REEL - Matched roller trolling rod, 50 lb monofilament line, mint cond. Ext. 2482.

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

WADING RIVER - Lg 4 bedrm house on 1/2 acre overlooking Sound, paneled liv & fam rms w/fireplace, 3 1/2 rm rental apt adjoining. 929-6132.

PT JEFF VILLAGE - Custom cape, 3 bedrms, 2 baths, din rm, lovely neighborhood, walk to harbor, closed street. \$30,990. 473-5592.

E. PATCHOGUE - Custom 3 bedrm ranch, 2 baths, paneled den w/fireplace, full bsmt, att garage, wooded landscape. 286-8440.

BELLPORT VILLAGE - Cozy older house, 4 bedrms, fireplace, full bsmt, separate garage. \$28,000. 286-9612 after 6.

PATCHOGUE - A real doll house! 2 bedrm expandable cape, 70x120 plot, fenced inyard, low taxes, convenient to stores & trans, city water & gas, principals only. A real buy at \$24,500. 475-2557.

E. ISLIP - Ranch home on 0.82 acres south of Montauk Hwy, AAA residential zone, property is unique & must be seen to be appreciated. 581-7190 after 6.

CENTER MORICHES - 1/2 acre wooded plot, 1 block to beach & boat launching. W. Lundgren, Ext. 7526, 585-3795.

E. PATCHOGUE - 2 story colonial, 3 yrs old, 4 bedrms, 2 1/2 baths, 2 car garage, fireplace, major appliances, 0.4 acres landscaped garden. 286-8455.

Wanted

SINGLE (TWIN) BED - Colonial or Early Am, reasonably priced, or in trade for metal twin beds. Olsen, 286-0376.

BOAT TRAILER - For 18' outboard, in good cond & less than \$100. Les, Ext. 2944.

PLANNING A VACATION BY AIR OR SEA? - Call Lee, 472-0658 after 6.

HOMES - For 6 wk old kittens, 2 male 1 female. Lewis, Ext. 3618, 281-7547.

SINGLE GIRL - To share house until Oct 31, Bayport, 25 min from Lab. 472-1518.

COUPLES OR GROUPS TO 6 - Evening cruises with licensed captain out of E. Hampton, dinner res avail. John, Ext. 4666, 588-0619.

CHARTER FISHING - Out of E. Hampton. John, Ext. 4666, 588-0619.

TREE REMOVAL & CHAINSAW WORK - Also light hauling, free estimates. Ken, 289-8212.

FULL SIZE BICYCLE - Prefer 5 or 10 gear, will consider 3. Foley, Ext. 3943.

VW BUS - 1963 or newer (1500) reasonable. Johnson, 286-8353.

Carpools

ARTHUR FROM FLORAL PARK - Please call Howard, Ext. 3260.