

BNL Lecture Making Sense Out of Environmental Data

For the past five years at BNL, Frederick Lipfert (DAS) has been working on a number of studies of energy/environmental interactions, including regional development, the impact of residential wood-burning, and acid precipitation. He came to Brookhaven in 1978 following five years at LILCO where he was manager of air quality, dealing with both



Frederick Lipfert

regulatory matters and research programs aimed at better defining the impact of LILCO facilities. Before his interest in air quality problems developed, he worked for 15 years in aerospace fluid mechanics, including a stint in Norway as head of aerodynamics for a Norwegian gas turbine manufacturer.

Lipfert will draw on all his environmental experience when he presents "Environmental Impact Assessment: Theories and Applications," the last lecture in the current Brookhaven Lecture series. The lecture will be given at 4:30 p.m. on Wednesday, June 22, at Berkner Hall.

The talk is focussed on air quality problems, beginning with source characterization, proceeding through transport and chemical/physical transformation, and ending with effects on receptors. The applications he will illustrate include characterization of source emissions based on combustion theory, calibration of meteorological transport models against field measurements, and statistical regression analysis of air pollution effects, for example human health. He will conclude with an outline of the National Acid Precipitation Assessment Program (and BNL's role in it) as a current example of a program which involves all these areas. The lecturer is principal investigator on a project, jointly funded by DOE and EPA, to provide coordination, oversight, and assessment support to the entire national program.

Lipfert's education includes degrees in mechanical engineering (M.E.) and aeronautical engineering (M.S.) from the University of Cincinnati, a diploma from the Von Karman Institute for Fluid Dynamics in Belgium, and a Ph.D. from the Union Graduate School, an arm of the Union for Experimenting Colleges and Universities headquartered in Cincinnati.

A coffee reception will be held at 4 p.m. preceding the lecture, and a buffet supper at 6:30 p.m., approximately an hour after the lecture. The price of dinner is \$7.50 and reservations should be made by calling Ext. 3541 before 5 p.m. that day.



Doug Humphrey

A computer is now part of the life of the Kramer family. Martin Kramer (left) Physics Dept., and his wife, Carolyn, DAS, say it is used for both games and educational purposes. Son, Scott, and daughter, Karen, are doing some programming, and Martin says that Scott would like to write his own games. The Kramers maintain that their home computer does not add anything to their electric bill.

Computer: The Next Household Appliance?

Computers have been around the office for some time now and, to most people, they are part of the workaday world. But to have one in the home, as naturally as a refrigerator, is not yet a prime concern of the average citizen.

However, nobody is taking any bets as to what the situation might be in, say, five years. According to most reports, more and more people are walking into computer shops to see what these new-fangled gadgets are all about and, likely as not, walking out with one.

At the Lab, where a microcomputer club has been in existence for about three years, the 80 or so members own these little wizards for a variety of reasons. They use a microcomputer to keep track of their taxes, investments, electric consumption, home finances, recipes, and other household records. One member programs a computer to monitor his solar heating system. And some people are trying to use voice synthesis as alarm systems for their homes.

Many of the members also have a computer as an educational tool for their children. Says George Sintchak (Instrumentation), "I've had several computers around the house, because I think it's necessary for my children to be computer literate." George Trigg (Phys. Rev.) who is writing a book and uses his computer for word processing, says his son, a high school senior, is modifying the software to produce a Greek alphabet which Trigg needs.

As time goes on, more information and services will be offered over the telephone lines for customers to hook into. One club member's college-bound high schooler has already taken advantage of it. For a 10 cent local call, he was able to hook into his school's computer and obtain a lot of useful information on colleges throughout the country.

It may not be long before students will be going off to college with a stereo under one arm and a microcomputer under the other. According to a recent issue of Time magazine, Drexel University will buy some 3,000 newly developed Apple MacIntosh computers, and require that each of its incoming freshmen buy one, at \$1,000 apiece (apparently about half the expected retail price).

About one-third of the programmers employed at Brookhaven are women.

Veronica (Ronnie) Evans, who is a programmer in DAS, has a personal computer at home. There, she helped set it up for her husband's business. Her children play games on it and learn new languages. It appears that women who are unfamiliar with computers through a professional association, do not take to them readily when their husbands bring them home. Most of the members of the club said their wives had not expressed much interest in learning about computers.

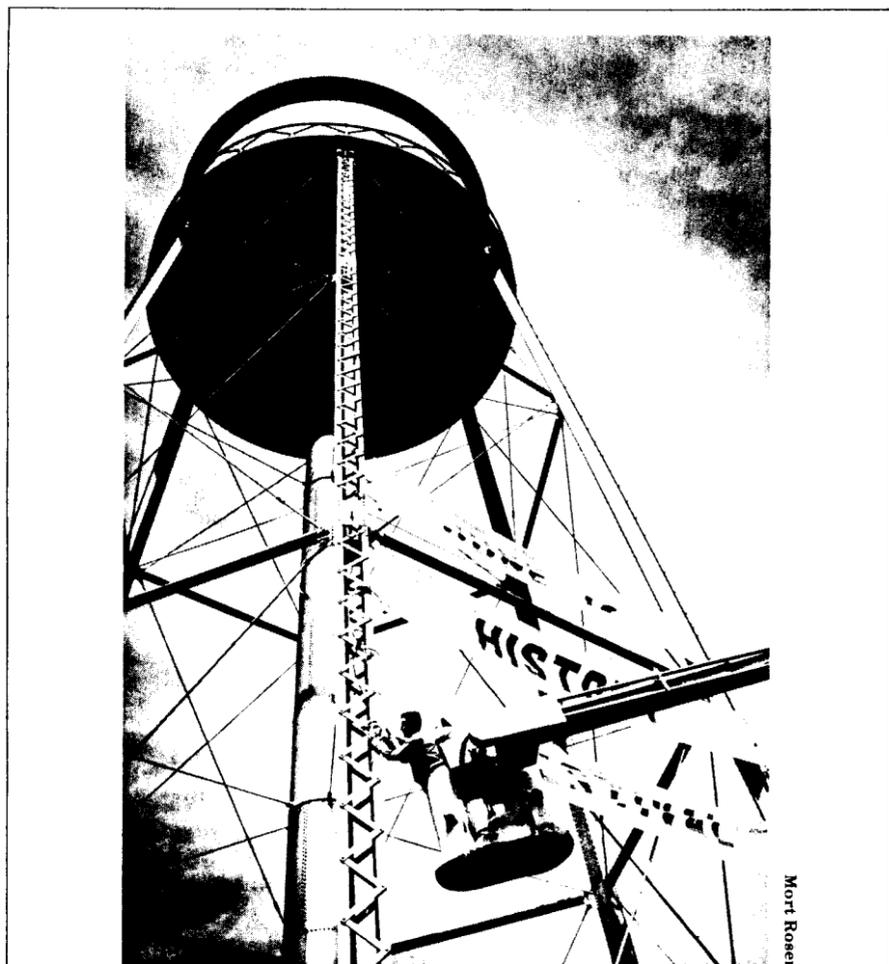
Biophysicist Jim Hainfeld started the Lab club because he wanted to know more about personal computers and hoped to attract people of like interests. He did, but most of them didn't know as much as he did and Hainfeld turned out to be the guru. He designed and built his own computer, but says it is unlikely he would do it again from scratch.

The club meets every Thursday at noon, and the programs vary. Sometimes Hainfeld talks about such things as computer architecture, discs or programming; and sometimes, members demonstrate their particular hardware or software. At other times, people from computer shops are invited to display their wares. And to see computers in action, members will tour a Lab facility such as the Light Source where some 60 microcomputers are hooked into a large computer.

Among the most popular computers purchased for home use by club members are Atari, Sinclair, Vic 20, TRS color computer, KayPro, Apple and IBM. About the least expensive is the Sinclair which can be purchased for under \$100. On the other hand, if the family budget allows, one might invest in a KayPro which costs about \$1800 initially, but can run up to \$3,000 or \$4,000 if a printer and other accessories are added.

What are some of the problems of computer owners? "It's easy to spend money on computers," says Hainfeld, "and this could lead to some family disputes." Besides cash flow, he says another problem is that users would like to share their programs with each other but they can't because the formats are not compatible.

Computers are very useful but they may not be the best solution for every (Continued on page 2)



Mort Rosen

Site linemen Jack Cochrane (left) and Jack Barry hang banners on the water tower to announce BNL's History Festival this Sunday. Festival hours are 10 a.m. to 5 p.m., and there is no admission charge. This year Suffolk County is celebrating its 300th birthday, and the History Festival is one of the official Tercentenary events.

Science in Ancient Africa

Prof. Ivan Van Sertima, Rutgers University, will speak on "The Lost Sciences of Africa" on Tuesday, June 14, at 7 p.m., Berkner Hall. Specifically, he will talk about agriculture, astronomy, architecture and engineering, experimental aeronautics, metallurgy, mathematics, medicine, navigation, physics, and writing systems. The lecture will be illustrated with slides.

Professor Van Sertima was born in Guyana, South America. He was educated at the School of Oriental and African Studies, London University, and at the Rutgers Graduate School. He holds degrees in African studies, linguistics and anthropology.

He is the author of "Caribbean Writers," a collection of critical essays on the Caribbean novel. From 1976-1980 he was asked by the Nobel Committee of the Swedish Academy to nominate candidates for the literature Prize.

Van Sertima has published essays on the dialect of the Sea Islands off the Georgia Coast, and is the compiler of the "Swahili Dictionary of Legal Terms" based on his field work in Tanzania, East Africa.

He is the author of "They Came Before Columbus: The African Presence in Ancient America." In 1981 it was awarded the Clarence L. Holte Prize, a prize given every two years "for a work of excellence in literature and the humanities relating to the



Ivan Van Sertima

cultural heritage of Africa and the African diaspora."

Professor Van Sertima is an Associate Professor of African Studies at Rutgers and is editor of the Journal of African Civilizations.

Aerial Survey

A blue and white helicopter will fly over the Lab at an altitude of 150 feet from June 11 to June 18. The flights will be during the day and will encompass a 25-square-mile area. The crew, from EG&G Inc., Washington, D.C., will map the natural terrestrial radiation profile of the areas around Brookhaven, as part of routine radiological background surveys performed by the Department of Energy (DOE). The surveys will be similar to those DOE has been conducting around many facilities in the U.S. for the last 20 years in connection with a continuous research and environmental radiation monitoring program.

WIS Events

The annual business meeting of Brookhaven Women in Science will be held on Tuesday, June 14, at noon, Room A, Berkner Hall.

Brookhaven Women in Science will hold their third annual cocktail party on the patio at the Brookhaven Center on Tuesday, June 21 at 5 p.m. Hot and cold hors d'oeuvres will be served and there will be a cash bar. Reservations are requested and can be made by sending a check for \$3.50 per person, payable to Brookhaven Women in Science, to treasurer Ellen Gannon, Bldg. 801, by June 16. The party is open to the Lab community.

Students Arrive

The summer students are here. From June 6 until August 19, 59 of them from 43 colleges will be collaborating with scientists in various departments. The purpose of the program, which is in its 31st year, is to provide students with educational and training experiences which will further their research interests. Funding has been provided by the Division of Intergovernmental and Institutional Relations, Department of Energy.

Reminder

Today is the deadline for enrolling in the Dental Assistance Plan. If you do not join now, the next chance to participate will be January 1, 1985.

Computer

(Cont'd)

situation. One club member recounted how his car broke down in the middle of nowhere and when he found something was wrong with his distributor cap, he was able to fix it temporarily. He said that if he had had a computer-

ized car, no repairs could have been made on the road, and the replacement of a module would have been very expensive. And as for computers being able to do everything a human being can do, Hainfeld says — "it's going to be hard to replace a poet."



Roger R. Stoutenburg

At a recent Thursday meeting of the Microcomputer Club, George Sintchak (front, third from right) demonstrated the ins and outs of his new Commodore 64 personal computer. Members at the meeting were (from left) Arthur Forman, Jim Hainfeld, Alan Kuehner, Dick Squires, Richard Machnowski, Sam Borenstein, Jack Tallent, Irving Montanez, Sintchak, Lily Liu, Joe Sheehan, Marty Kramer, Bill Siegelman, Judy Liu. Each week the club members exchange information and explore the joys and problems of home computers. Owners of the same type of machine are also forming informal user groups. For more information on this call George Sintchak on Ext. 4227.

Signs For All Reasons

These last few weeks have been busy ones for Frank DeRosa, BNL sign painter. He has been doing the signs for the History Festival this Sunday, including the big banners now hanging on the water tower.

Actually, though, DeRosa is always busy. He's a one-man operation, responsible for all the signs on site. Traffic signs, street signs, nameplates, electronic panel schematics, retirement plaques, pressure sensitive labels, back lighted signs, silk screened signs — he does them all.

A visit to DeRosa's shop tells the story. Amid the brushes and paints he uses for hand lettering are other tools which make him seem less of a sign painter and more of a sign maker. For example, all metal signs are made with special techniques. Signs that must be reflective are done with a heat process that involves baking a reflective material onto metal. Nameplates, retirement plaques and the like are made with photosensitive metal plates onto which words and pictures can be burnished.

These processes are time savers because the actual letters are purchased commercially or typeset by computer in Graphic Arts. But there is no sub-

stitute for hand lettering and drawing when a special one-of-a-kind sign is needed. That's when talent, combined with a good eye and a steady hand, are most critical.

DeRosa's artistic leanings were recognized when he was a youngster. His first pictures — not counting early childish doodling — were of a boxer and a ferry boat. Later he painted murals and lettered cars for friends. He never had any formal training, but he had encouragement from his parents.

In his job at Brookhaven, DeRosa started as assistant sign painter to Doug Smith, who left the Lab almost three years ago. Now that he is alone in the shop, he's always looking for ways to save time. One of his innovations is using photosensitive metal to make the plaques given to retirees, which replaces the hand drawings he used to do.

While one week he might concentrate on making certain types of signs, as he just did for the History Festival, on the whole, he does a large mix of everything needed on site. And visitors to the Lab this Sunday will be able to find their way around more easily, thanks to DeRosa's signs.



Frank DeRosa unfurls one of the banners he painted for the History Festival this weekend.

Children's Summer Program

This summer's recreation program for children will begin on Wednesday, July 6.

Swimming Classes

Place: BNL Swimming Pool
Activities: Each child will be scheduled for one lesson each week for eight consecutive weeks. American Red Cross certificates will be awarded to those children who qualify.

Time: Monday through Friday - 1:30 to 3:00 pm

Fee: \$15 for each child upon registration. Also, each child will pay the daily admission fee of \$1.25, or present a season ticket.

Participation: Children of all Laboratory employees. A minimum height of 47" is a participation requirement.

Registration applications may be picked up at the Recreation Office between the hours of 8:30 a.m. to 5:00 p.m.; the BERA Film Service Office in Berkner Hall between 9:00 a.m. and 1:00 p.m.; and the swimming pool during open hours. Mail or deliver applications with registration fees (checks payable to BERA) to Recreation Office, Building 185, no later than June 24.

Tennis Program

Place: BNL Tennis Courts

Activities: Basic tennis instruction
Time: Monday through Thursday - 3:00 to 4:00 p.m.

*Fee: No fee or registration required.
Participation: Children of all Laboratory employees. Children will provide their own racquets and balls.

*Children who wish to play in the end-of-season tournament will be asked to pay a \$2 entrance fee.

Friday Pool Specials

Place: BNL Swimming Pool

Activities: Water games and contests

Time: Each Friday - 3:15 to 4:30 p.m.

Fee: \$1.25 daily pool admission or present a season ticket. No registration is required.

Participation: Children of all Laboratory employees.

Arrivals & Departures

Arrivals

Henry G. Ashby, Jr. Accelerator
Peter K. Boni Physics
Dongmin Chen Physics
Diane R. Collins Contr. & Proc.
Janice DePass Nuclear Energy
Lewis Jiggetts Accelerator
Richard L. Maldonado Reactor
Anthony Muscarella Accelerator
Raymond Patuano Plant Eng.
Ann Marie Schuler Applied Science

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:
Ann M. Smith Contr. & Proc.

Hospitality News

As mentioned last week, Betty Mazzarella has made arrangements for a tour of the historical William Floyd Estate. The group will be departing at 10 a.m. from the Brookhaven Center. If you are interested in taking the tour, it is suggested that you arrive at the Center no later than 9:45 a.m. in order that you may be advised of the travel arrangements.

BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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MONA S. ROWE, Assistant Editor
ANITA COHEN, Reporter

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Telephone (516)282-2345

Swimming Pool

The pool will be closed on Sunday, June 12, and also during the holiday weekend July 2 through 5.

Summer Schedule (Starting July 6)

Monday through Thursday
11:00 am to 1:30 pm employees only
1:30 pm to 3:00 pm children's lessons
3:00 pm to 9:30 pm employees/families/guests

Friday
11:00 am to 1:30 pm employees only
1:30 pm to 3:00 pm children's lessons
3:00 pm to 4:30 pm children's pool special
4:00 pm to 9:30 pm employees/families/guest

Saturday & Sunday
1:00 pm to 6:00 pm employees/families/guests

Entrance Fees

Daily Admissions:
\$1.25 employee
\$1.25 family member
\$1.75 guest

Season Tickets: (valid to September 4)
\$23.00 individual
\$33.00 family

Season tickets are sold at the pool during open hours to employees and immediate family members.

Guest Ruling (Applies to all recreation facilities)

One Guest - An employee is allowed to bring one guest per visit without special permission or prior arrangement. The guest must be accompanied by the employee.

Two to Five Guests - Advance arrangements for two to five guests may be made at the Recreation Office. (No more than five guests per employee is ever permitted.) When such an arrangement is made, the Recreation Office issues an admission card stating the sponsor's name and life number, the number of guests permitted, the date of visit, and the facility to be visited. Guests must be accompanied by the employee, who will be requested to show the admission card at the main gate and at the swimming pool ticket desk.

Sponsoring employees are responsible for their guests during the entire time they are on site.

Blood Drive In Gear

In January the Greater New York Blood Program gave BNL an award. Among federal facilities in the N.Y.C., N.J., L.I. and Hudson Valley area, the Laboratory had one of the highest percentages of employees donating blood in 1982.

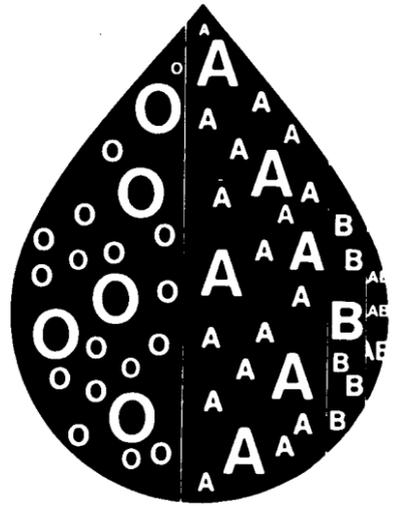
BNL will try to improve upon last year's turnout (643) when the 1983 Summer Blood Donor Program is held Wednesday, June 22 and Thursday, June 23 from 10 a.m. to 3 p.m. in the gymnasium.

A summer event for the past 15 years, the blood drive comes before the July 4th weekend because of the anticipated rise in car accidents.

For the first time, donors will be asked to fill out a confidential questionnaire concerning AIDS, a disease with an unknown cause, which has received considerable attention during the past year. The questionnaire will be used to screen potential donors. If there is a possibility of AIDS, the blood will be used for research.

As for contracting this disease when giving blood, "chances are minimized," says L.C. Emma, Chairman of the BNL Blood Program. "Antiseptic measures, including the use of disposable needles, are employed during blood donation to prevent the spread of this or any other communicable disease."

Pledge cards have been distributed and must be returned either to departmental blood drive captains (see below) or to Emma no later than June 14.



Blood Drive Captains

- Accelerator Peter Yamin
- App. Math Mike Losquadro
- Biology Richard Sautkulis
- CBA Vera Mott
- Central Shops Christine King
- Chemistry Sophie Kostuk
- Contracts Harry Klein
- DAS Pat Taylor
- DNE Allen Weiss
- DOE Michael Butler
- Fiscal Fred Hohmann
- Instr. Pat Gilleeny
- MIS Jim Birtle
- Medical Elliott Levitt
- NSLS Susan White De Pace
- Personnel Marsha Kipperman
- P&GA Karen Hartman
- Physics Bobbie Still
- Plant Eng. Bruce Medaris
- Reactor Berthel Becton
- Res. Lib. Marilyn Galli
- S&EP Charles Flood
- Supp. & Mat. Lou DiCarlo
- Staff Serv. Nick Pisco

Gymnasium Hours

Closed Saturdays and Sundays throughout the summer months.

June 11 - 20
Open - 11:00 a.m. - 2:00 p.m. (employees only)
5:00 p.m. - 9:30 p.m. (general activities)

June 21 - 23
Closed for Blood Drive

June 24
Open - 5:00 p.m. - 9:30 p.m. (general activities)

June 27 - July 1
Open - 11:00 a.m. - 2:00 p.m. (employees only)
5:00 p.m. - 9:30 p.m. (general activities)

July 4 and 5
Holiday closing

Starting Wednesday, July 6
Normal summer schedule
11:00 a.m. - 1:30 p.m. (employees only)
5:00 p.m. - 9:30 p.m. (general activities)

Whitewater Films

The Mountain/Canoe Club invites all who are interested to view a two-film program about whitewater fun and safety. Show time is noon on Monday, June 13 in Room B, Berkner Hall. Each film runs from 12 to 15 minutes.

Berries Come Lately — Again

The inclement weather of past weeks has delayed the start of the strawberry season on Long Island. Local growers say the berries should be at their peak by the weekend of June 18th. But just in case, call ahead.

The annual Strawberry Festival sponsored by the Mattituck Lions Club will be held on June 18th from noon to 5 p.m. at Mattituck High School (Rte.

25 east of Mattituck). This popular event will include the High School band, a raffle for a \$5000 scholarship, coronation of the Strawberry Queen, arts and crafts exhibitions and sales, amusement rides, games of skill, and mountains of old-fashioned homemade strawberry shortcake topped with whipped cream. Admission is \$1 for adults, 50¢ for children.

Osborn Farm: Main Street, Wainscott (537-1323). 8 acres. Dawn to dusk, Mon.-Sat. 75¢/qt. including container. Children especially welcome.

Lewin Farms: Sound Avenue, Wading River (929-4327). Next to Wildwood State Park, 50 acres. 7 a.m.-7 p.m. 65¢/qt. Containers available.

Fritz Lewin Farm: Corner of Sound and Edwards Avenues, Calverton (727-3346). 8 a.m.-6 p.m. 60¢/qt. Containers may be purchased.

Sabat Farm: 116 Sound Avenue, Baiting Hollow (727-2426). 7 a.m.-3 p.m. 60-75¢/qt. Bring your own qt. containers.

William J. Polak, Jr.: Church Lane, Aquebogue (722-3049). 4 acres. 8 a.m.-6 p.m. Prices not available. Containers available at cost.

Ferdinand Schmitt Farm: 26 Pinelawn Road, Melville (423-5693). 10 acres. 8 a.m.-4 p.m. Prices not available. Including container.

Kenneth Glover: 633 Horse Block Road, Brookhaven (286-8721). 50 acres. 8 a.m.-7 p.m. 75¢/lb. Containers may be purchased. At least one adult for every two children.

Sep's Farm Stand: A.P. Sepenoski, Jr. Route 25, East Marion (323-3612). 5 acres. 8:30 a.m.-5 p.m. Prices not available. Containers may be purchased.

Henry Schwenk: Montauk Highway, Bridgehampton (537-1377). 2 acres. 8 a.m.-6 p.m. Prices not available. Containers may be purchased.

Young's Orchard: 54 Sound Ave., Riverhead (727-5363). 4 acres. 8 a.m.-6 p.m. Prices not available. Containers may be purchased.

R. Hogner: 120 Dayton Ave., Manorville (878-1774). 2 acres. 8 a.m.-sunset. Prices not available. Containers 5¢ extra.

Edwards Farm: N. Edwards Ave., Calverton (727-0472). 9 acres. 8 a.m.-6 p.m. 60¢/qt.

South Breeze Farm: 260 Old Country Road, Huntington (423-5914). 8 a.m. Come early. Prices not available.

John Berezny: Sound Ave., Riverhead (727-4661). 2 acres. 8 a.m.-5 p.m. Prices not available. Containers may be purchased.

Wickham Fruit Farm: Main Road, Cutchogue (734-6441). 10 a.m.-5 p.m. Mon.-Sat. Prices not available. Bring your own qt. containers.

Green Thumb: Montauk Highway, Water Mill (726-4989). 10 acres. 8 a.m.-5:30 p.m. 60¢/lb. Bring your own containers. Please call ahead.

Hodun Farms: (727-2618). 8 a.m.-5 p.m. 50¢/qt. Containers available at cost.

Car Repair Class For Women

The Gulf Service Station is conducting a workshop on June 16 from 5:30 to 7 p.m. — and it is for women only. Two mechanics will give instruction in basic car maintenance involving such matters as how to check the oil, transmission fluid, tire pressure, and what to do in case of an emergency. There is room for 16-20 women and, to reserve a place, call Charlie on Ext. 4034. Each participant will also receive a small gift and a certificate.

Golf

The third tournament of the BGA golf season will be held on Wednesday, June 22, at the Pine Hills Country Club in Manorville. Tee times will be from 11:30 to 1:00 and may be obtained by contacting John Nagy, Ext. 2667, Bldg. 475. Entry fees are \$1 for league members and \$2 for non-members, and must be paid by Friday, June 17. Nagy will also handle the collection of greens fees - \$9. Those planning to play in the tournament may include the greens fee with the entry fee, or pay Nagy at the course.

Theater Group

The Theater Group will meet at 8 p.m. on Friday, June 10, in the Physics Department lounge. The main item of business will be the election of officers for the next year. The slate of candidates is:

President — Karl Swyler
Vice President/Treasurer — Lori Eagle

Secretary — Bob Kinsey
House Committee Chairman — Rita Straub

Program Committee Chairman — Bill Love

Advisory Committee Chairman — Kurt Fuchel

Publicity Committee Chairman — Penny Baggett

Nominations will also be accepted from the floor. All members are urged to attend.

Singles Club

The BNL Singles Club will meet on June 14 at 5:10 p.m., Room C, Berkner Hall. Members who haven't sent in a reply form for the club picnic on June 18, should do so as soon as possible. Money for the Atlantic City trip (June 25) and Westbury Fair, "Camelot" (June 30) should also be sent in immediately. For further information, call Chuck on Ext. 5317.

Cafeteria Menu Week Ending June 17, 1983

Monday, June 13	
Cream of chicken soup	(cup) .65
	(bowl) .75
Beef liver w/onions & 1/veg.	1.80
Port chow mein on rice	1.85
Hot Deli: Veal pattie parmesan hero	1.95
Tuesday, June 14	
Pork and cabbage soup	(cup) .65
	(bowl) .75
Spaghetti Special "all you can eat" w/meatsauce & garlic bread	2.05
Beef Burgundy on rice	1.95
Hot Deli: Baked ham	(bread) 1.85
	(roll) 1.95
Wednesday, June 15	
Turkey rice soup	(cup) .35
	(bowl) .45
Meatcakes & onions w/1 veg.	1.80
Southern fried chicken w/stuffing & giblet gravy	1.95
Hot Deli: Roasted turkey breast	(bread) 1.85
	(roll) 1.95
Thursday, June 16	
Beef noodle soup	(cup) .65
	(bowl) .75
Braised Swiss steak w/onions, mushrooms & 1 veg.	2.10
Sauteed chicken breasts on rice	2.00
Hot Deli: Knockwurst & kraut	(bread) 1.85
	(roll) 1.95
Friday, June 17	
Manhattan clam chowder	(cup) .65
	(bowl) .75
Breaded fish fillet & 1 veg.	1.85
Roast loin of pork & sweet potatoes	1.95
Hot Deli: Clam boat	1.95
The Salad Bar is now open Tuesday thru Friday	

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 Personnel Placement Supervisor, Ext. 2882.

LABORATORY RECRUITMENT: Opportunities for present Laboratory employees.

1884. TOOLCRIB ATTENDANT - Central Shops Division.

1885. HELPER A - Central Shops Division

OPEN RECRUITMENT: Opportunities for present Laboratory employees and outside applicants.

1886. ELECTRICIAN A - (Temporary opening) - Under minimum supervision, lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Requires minimum of five years' industrial electrical experience. Plant Engineering Division.

1887. TECHNICAL POSITION - Requires AAS degree in mechanical technology or its equivalent. Will assist in the operation and maintenance of high capacity pumping equipment, cooling towers, heat exchangers and demineralizers. Experience with power house, marine equipment and water analysis helpful. Accelerator Department.

1888. DATA SERVICES ASSISTANT - Requires AAS degree or equivalent appropriate experience. Will prepare input data, keep records, prepare charts and maintain files on all trim coil information. Accelerator Department/CBA.

1889. CLERICAL POSITION (Half-time) - Requires excellent typing and clerical skills. Proven ability in statistical typing necessary. Experience in word processing, business math, and book-keeping highly desirable. Personnel Division.

1890. PROGRAMMER - Responsible for the coding of programs, testing of program logic, and preparation of these programs for computer operation. Will assist systems analysts in design specifications. Requires BS in business administration or a related field, and a year of COBOL programming experience. Familiarity with Hewlett Packard 3000 highly desirable. Management Information Systems Division.

1891. SYSTEMS/DP ANALYST - Participates in the design and development of various administrative and management systems and their associated computer implementation. Requires a BS in business administration, or a related field, and several years' COBOL programming experience, some at the analytical level. Knowledge of Image 3000 Data Base Systems necessary. Familiarity with ASK, QUERY, SPL desirable. Management Information Systems Division.

1892. BIOLOGY ASSOCIATE - (Part/time/Mornings) - Requires BS in biology or equivalent capabilities. Must be familiar with sterile techniques and preparation of solutions. Individual hired will be expected to culture mammalian cells and prepare growth media. Biology Department.

1893. STAFF ENGINEER - Requires a bachelor's degree in electrical engineering, or equivalent capabilities. Will be involved in the development and maintenance of modern electronic instrumentation in support of a diverse fundamental research program. Chemistry Department.

Auto & Auto Supplies

- 77 CHEVY CAMARO - \$3,300. Ext. 7125.
- 74 VW - \$1,500. Michelle, Ext. 7931 or 586-1416 eves.
- 71 TOYOTA COROLLA - \$350. Ext. 4745.
- 14" RIMS - fit Chevy or GM cars, \$5. Ext. 3392 or 475-8330.
- 68 VW CAMPER - \$900. Wanda, Ext. 3583 or 3682.
- 77 CHEVY VAN - Ext. 3499 or 325-9580 after 6 p.m.
- 80 TOYOTA CELICA - Ext. 3499 or 325-9580 after 6 p.m.
- 76 KAWASAKI KZ900 - \$1,600. Carl, 399-2646.
- 74 MAVERICK - best offer. Lee, Ext. 7738 or 3015.
- 80 KAWASAKI 650 - Bob Johnson, Ext. 3354.
- 78 HOND 550 - \$1,200 firm. Ext. 7654.
- 78 FORD ECONOLINE - asking \$4,000. 331-3608 after 6 p.m.
- 81 CHEVY MALIBU - \$6,200. Ext. 5294.
- 80 HONDA HAWK - \$895. 286-8814 after 5:30 p.m.
- 76 DATSUN 280Z - \$4,200. 486-6460.
- 80 CHEVY PICKUP - \$4,980. 588-6770 or 585-4126 after 5 p.m.
- 67 DODGE DART - \$200 firm. 821-0758 6-8 p.m.
- 77 VW RABBIT - 475-2075.
- 15" ALUM. MAGS - Ford, set of 4 w/lugs & locks, \$65. 878-9534.
- 74 AMC HORNET - \$800. Chien, Ext. 3723 or 924-0318.
- 73 TOYOTA PICK-UP - \$1,000. John, Ext. 2172 or 744-4386.
- 73 AUDI 100LS - Paul, Ext. 2476.
- 79 HONDA MOTORCYCLE - \$1,000. Ext. 7125.

- 78 MUSTANG - Kathy, Ext. 3604.
- 74 FORD GALAXY - \$700; 1978 Ford Fairmont, \$1,500. Joe, Ext. 4661 or 878-2203.
- 69 VW - \$250 as is. Ext. 4249.
- 78 HONDA MOTORCYCLE - 750K, \$1,700. 289-1122 after 6 p.m.
- 78 DATSUN 280Z - asking \$5,000. 265-1475.
- 80 KAWASAKI KD80 - \$375 or best offer. 588-9459 after 5 p.m.
- 73 360 AMC MOTOR - \$250; (4) 10/15 Gillette tracker tires mounted on white spoke rims to fit Jeep, \$250. Linc, 286-9385.
- 77 CADILLAC COUPE DE VILLE - Gary, Ext. 2350 or 567-9617.
- 73 OLDS CUTLASS SEDAN - \$1,200. Ext. 2554.
- 71 DODGE DART - \$325. Cleve, Ext. 4483 or 924-0092.
- 77 DODGE - 4x4, \$4,200. 588-4703.
- 73 FORD GALAXIE - \$875. Ext. 4532.
- 68 OLDSMOBILE CONVERTIBLE - 442, \$1,800. 587-5543.
- 73 TOYOTA PICK-UP - \$1,500. Al, Ext. 5128.
- TIRES - HR78-15 and 205-15, mounted on rims, \$10/ea. Ext. 2500.
- 75 CHEVY CAPRICE - Estate Wagon, \$1,850. Fred, Ext. 3259 or 473-8622.
- 77 CHEVY VAN - also 1980 Toyota Celica GT Oscar, Ext. 3499 or 325-9580 after 6 p.m.
- TIRES - (4), steel belted radials, FR78-14, all for \$60. Frank, Ext. 3963 or 928-0516 after 6 p.m.
- 83 RENAULT ALLIANCE - 878-4498.
- 79 HONDA 750F SUPER SPORT - motorcycle, \$1,900. 473-7809.
- 81 DATSUN 210 - Ext. 4395 or 653-4195.
- TAILGATE - \$50; front & rear bumpers, \$25/ea.; pick-up cross bed, metal box, for Chevy C-10 pick-up, \$75. Jim, Ext. 4040 or 289-0876.
- 78 PORSCHE - (212) 358-5705.
- 79 MAZDA 626 - \$4,500. Larry, Ext. 4107 or 472-0721.
- 78 PLYMOUTH FURY WAGON - Walt, Ext. 5316.
- 81 HONDA CM400E - \$1,000 firm. 924-8634.
- 72 HONDA MOTORCYCLE FRAME - 750cc. 654-2076 eves.
- VW PARTS - brand new, call for needs. Augie, Ext. 2419 or 289-4211 eves.
- 80 MERCURY CAPRI - Turbo, asking \$5,000. 361-9352.

Boats & Marine Supplies

- 18' LARSON - 1972, V-hull, 1975 135 HP Johnson, Teleflex, trailer, \$2,200, neg. 475-3415 after 6:30 p.m.
 - PROP - Mercury, 65-150, excel., \$35. Les, Ext. 4107.
- ### Miscellaneous
- BOYS BIKE - Sears 24", balloon tires, old but good shape. \$10. 286-8814 after 5:30 p.m.
 - 8-TRACKS - assorted box, \$10 takes all. Joe, Ext. 7961 or 878-2655 eves.
 - SLICING MACHINE - yogurt maker; cooker-fryer, old Royal manual typewriter; GE record player, reasonable. Ext. 4851 or 732-8241.
 - POOL - beat the heat, 15'x30', oval, aluminum, \$450 incl. access. Walt, Ext. 2907 or 698-0576.
 - SKI BELTS - \$ ea.; foul weather suit, \$40. Joe, Ext. 7961 or 878-2655 eves.
 - FLOOR WAXER/SCRUBBER - Kenmore 14", 2 spd. w/attach.; vacuum cleaner, Hoover upright, Ext. 3392 or 475-8330.
 - WATER PUMP - self-contained w/tank, Sears Best, Ext. 3392 or 475-8330.
 - FREEZER - 20 cu. ft., manual defrost, upright, \$175. Paul, Ext. 4156.
 - WET SUIT - Parkway, men's large, gloves, boots, used once, \$100. 289-0413.
 - BICYCLES - (2), beginner 12" & boy's 20", \$10 ea. Ext. 5504.
 - DISHWASHER - GE Americana, built-in type, new motor/pump assembly, \$65. Paul, Ext. 7644 or 744-2733.
 - AIR CONDITIONER - Philco, 13,500 BTU's, 110 volt, will demonstrate, \$150. Hugh, Ext. 4669 or 924-3522 after 6 p.m.
 - GOWN - women's size 10, blue flowered, short sleeve, new, \$10. Angela, 744-5871.
 - PACHYSANDRA - healthy ground cover for steep slopes & shaded areas, 25/\$3, 50/\$5.50, 100/\$9, Mountain Laurel, 3-6 yr. old plants, healthy, \$6-\$10. Janice, 929-4522.
 - CASEMENT WINDOWS - heavy duty, aluminum, screens, storms incl. various sizes, \$20 ea. Niels, Ext. 4124.
 - UPRIGHT FREEZER - GE, 19.4 cu. ft., never used, sacrificing for \$360 or best offer. Ext. 3060 or 744-9081 after 6 p.m.
 - ATARI 2600 - joysticks, paddles, basic prog. controller, keyboard, cartridges & storage containers, all excel., \$95; Atari cartridges, Pinball, Warlords, Olympics, many others, \$10-15. Kevin, Ext. 4261 or 654-8553 eves.
 - ELECTRIC WATER HEATER - 82 gal., 240 volts, duel element, 585-4126 after 5 p.m.
 - KING SIZE MATTRESS - boxspring & frame, \$200; king/queen wicker headboard, \$50; twin mattress, boxspring, \$35; antique sewing machine & cabinet, \$30. D. Hardy, Ext. 3389.
 - ANTIQUA DRESSER - walnut, 4 drawers, w/attached mirror, good cond. Walt, Ext. 7154.
 - SEARS UPRIGHT FREEZER - frost-free, 15 cu. ft., like new, \$300. 924-0185.
 - BUTCHER BLOCK KITCHEN TABLE - round, 42" diameter, with 3 real leather swivel chairs, \$200. 363-6121.
 - FRIGIDAIRE UPRIGHT FREEZER - 18.7 cu. ft., excel. cond., \$200. 363-6121.
 - MULTIVOX MX2000 SYNTHESIZER - excel. cond., \$400. 363-2614 after 6 p.m.
 - FRONT DOOR - 1-3/4" solid door, best offer. Richie, Ext. 3815 or 924-5329.

- WASHER/DRYER - \$100 for both; refrigerator, \$50, runs well. Roy, Ext. 4664 or 744-8779.
- EMERGENCY FUSE KIT - British autos, i.e., Austin Healey, Triumph, etc. Susan, Ext. 4267.
- SOLID OAK ROLL-TOP DESK - \$480; 19" G.E. color TV, remote control, \$400, both new. 981-9584 eves.
- PANASONIC TV - 19" color, needs work, \$25. Dick, Ext. 2911.
- DEHUMIDIFIER - Westinghouse, \$50, exercycle, \$25. 286-9626.
- HEAD BOARDS - twin size, vinyl, beige & gold, dark frame, 2 for \$8; Mary Proctor ironing board, non-slip, legs adjustable to standing or sitting, \$10. 289-6490.
- KODAK TELE-EKTRA LITE CAMERA - 600, electronic flash, turns itself on & off when needed, new. Bob Johnson, Ext. 3354.
- PAINT SPRAYER - 1/4 HP pump and sprayer, old but excel. cond., \$75. Gulbransen transistorized organ, \$75. Dick, Ext. 2911.
- ROLLER SKATES - mens, black, size 11, like new, cost \$80 asking \$40. Bob, Ext. 2517 or 331-3358.
- COLOR TV - 19" Zenith, needs parts, best offer. Bruce, Ext. 5091.
- POOL FILTER - Hayward Perflex #EC-60, for inground or above ground pool, excel. cond., \$100. George, Ext. 4227 or 751-0894 eves.
- CARTOON CARCIATURES - done by prof. artist of yourself or your favorite person, great for birthdays, anniversaries, etc., need photo snapshot, 9x12, \$25. Adam Leskovic, Ext. 3533.
- RAILINGS - (2), for a 3-step stoop with 4 ft. platform, fancy scroll, heavy duty wrought iron, oak firewood, 18" long x 6" x 2" (approx.), \$20. 744-3792.
- 30 GAL. WATER STORAGE GALVANIZED TANK - rated 106 lbs. press, 1'x5' long, \$45; Ridgid #300 elec. pipe threading machine, 110 V; also oiler-pipe holding stand, \$500; shredder & chipper, 8 HP, gas motor machine by Chippit, Domark Ind., \$350. Angelo, Ext. 3457.
- DINING ROOM SET - cherry, Thomasville, buffet, double pedestal table w/pads, 4 chairs, excel. cond., \$800. 289-0990.
- WEIGHT LIFTING BENCH - with leg lift, like new, cost \$80 asking \$40. Ext. 2517 or 331-3358.
- PIANO AND BENCH - Spinnet, fruitwood finish, mint cond., \$1,250. 286-9626.
- DINING ROOM SET - sofa; triple dresser; recliner; drapes; golf clubs. Ron, Ext. 3145.
- WOODEN DOUBLE DESK - seats 2, 4'x5' top, \$80. Ray, Ext. 7509 or 924-0569.
- CEILING TILES - used, white, insulating, 512 sq. ft. x 5/8 in. thick, \$25. 473-7809.
- STORM DOOR - 36" wide, \$15. Al, Ext. 4395 or 653-4195.
- DRESSER OR BUFFET - Danish modern, 5' long x 18" wide x 30" high, walnut veneer, good cond., \$95. Ext. 4532.
- TV GAME - Magnavox Odyssey, orig. box and 5 other game cartridges. J. Cumming, Ext. 4347.
- CANOPY BED FRAME - good cond., \$50. Ext. 2964.
- WETSUIT - Bayley's, long arms, excel. cond., men's small, good for surfing, sailing, kayaking, etc. Jay, 286-3679.
- CAR SEAT - good cond., \$10. Ext. 5334 or 862-7998.
- COUCH & CLUB CHAIR - excel. cond., \$125. 862-7986 after 7 p.m.
- ITALIAN PROVINCIAL COUCH - chair, ottoman and 2 lamps, like new. Ext. 2885 or 473-1906 after 7.
- CHAIN LINK FENCE AND GATE - 4' high, 15' fence, all posts rails hdwre. \$40. Dick, 878-1580.
- WINDOW - 6'x12', new, 3 sections, 2 small end windows, middle section - large Gary, Ext. 2350 or 567-9617.
- UNIVERSAL A/C ADAPTOR - 3.6.9+, 12 volts, never used, \$6. Bill, Ext. 4664, 298-4089.
- BABY ITEMS - G.M., infant car seat, convertible high chair, sterilizer, more, \$50 takes all. 581-1864.
- SINGER SEWING MACHINE - \$75; step stool, \$20; bookcase headboard, \$25, quartz heater, \$30, new toaster oven, \$45, 2 table lamps, \$25 each, electric knife, \$20. 744-6874.
- SEARS UPRIGHT 16 C. FREEZER - like new, \$150; room divider with lights, wood, \$70. 878-2421.
- ENGLISH COCKER SPANIEL PUPPIES - all shots, 3 black males. Reasonable. Liz, 286-1662.
- WHIRLPOOL GAS DRYER - 3 temp. custom dry control, permanent press. \$150. Gary, Ext. 2350 or 567-9617.
- ELECTRIC WATER HEATER - 82 gal., 240 volts Dual element. Call 585-4126 after 5 p.m.

Lost & Found

LOST - black cat, answers to Blackie or Handsome Boy. Ext. 4898.

Free

DOG - female, Brittany Spaniel mix, excel. disposition, great with children, well-trained. Joe, Ext. 7961 or 878-2655 eves.

KITTENS - ready 2 wks., white w/blue eyes, long hair. 265-1072.

Yard Sales

LEAVE THE COUNTRY SALE - furniture; household appliances; stereo; TV systems; toys & more. 924-0318.

E. MORICHES - Christmann Ave., multifamily, June 11-12, 10-5 p.m., rain date, June 25-26.

E. Setauket - 8 Washington St., Poquott, June 12, 10 a.m.-3 p.m., toys, cycles, furniture, foot lockers, misc. 331-9349.

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 - colonial cape, 4 bdrms., 2 baths, d/r, eik, 2 car garage, 2,100 sq. ft., on 175'x600' lot, Shoreham/Wading River School Dist., asking \$115,000. Ext. 4313 or 929-4551.

DIRECT LONG ISLAND SOUND WATERFRONT - private beach, year round 2 bdrm. home, large family room w/wood stove, decks, excel. cond., salt marsh opposite, boat ramp adjacent, \$90,000's. 929-3127.

For Rent

HAMPTON BAYS - summer rental, secluded waterfront, 2 bdrm. house, \$2,500/mo. or \$700/wk. 728-2104 eves & weekends.

E. PATCHOGUE - south of S. Country Rd., 2 bdrm., 1/2 r, eik., priv. ent., avail. Aug. 1, \$270/mo. + util. Walt, 698-0576.

MT. SINAI - off Canal Rd., 3 bdrm. ranch, 2 baths, full finished basement, fully furnished, July-August, \$700/mo. plus util. Ext. 4260/4207 or 928-5737.

Carpools

PATCHOGUE - on time pool, opening for paying rider. Alyce, Ext. 2092.

BROOKLYN - to join existing or to form new car pool. E. Garber, Ext. 7772.

QUEENS/REGO PARK - to join existing or form new car pool. Robert, Ext. 7772.

EAST ISLIP - 3-man car pool, desires other riders/drivers. Ext. 4532.

BABYLON/W. ISLIP - 1 or 2 drivers for 4-person car pool. Ext. 2500.

COMMACK AREA - ride needed, beginning about July 25. 543-5279.

COMMACK - looking to join car pool, 8:00-4:30. Don, Ext. 2043.

COMMACK - need 4th rider/driver, door to door, on time, 8:30-5:00. Jim, Ext. 4452.

Wanted

HOUSE TO RENT - Bayport/Blue Point area only, 2-3 bdrms. Carol, Ext. 3341, 567-6433 after 6 p.m.

BIRD CAGE STAND - 878-4128.

CLARINET - w/case, reasonable price, good cond. Janet, Ext. 7604 or 475-7025.

TO RENT - house or apt., for couple during July. Ext. 4192.

STUDENT DESK - & chair, wood w/drawers, Stan, 475-0532.

AMF SUNFISH SAILBOAT - reasonable. 286-8521.

ROOM - or efficiency near SUNY/Stony Brook for visiting faculty, July 17-Aug. 28. 928-1831.

FRENCH DOORS - wood, 2'x6"x6" 8" ea.; sofa or library table, 5' long x 30" high (approx.). 744-3792.

BICYCLE RACK - for car. Karen, Ext. 2950.

BATON TWIRLERS - march with Marie's Major-ettes this summer. 286-0211.

STUDIO - to rent; 1 bdrm., house beginning July, reasonable. Debbie, Ext. 3420 or 643-2261.

HOUSE TO SIT - free, long or short term, prefer Stony Brook area, refs. G. Watson, 286-3679.

OMC O/B - late model, 70-115 HP. Ext. 4107 or 472-0721.

Ads for Services may be posted at the BERA Sales office.

Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Ads for the sale or trade of firearms will not be accepted.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
7. 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, Building 134.

- For Sale: Autos & Auto Supplies For Sale: Miscellaneous Wanted Lost & Found
 For Sale: Boats & Marine Supplies Car Pools Free

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call

Note: The following must be completed for your ad to appear.

NAME (Please Print) :

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

Send to: Brookhaven Bulletin, Building 134 (Ext. 2345).

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