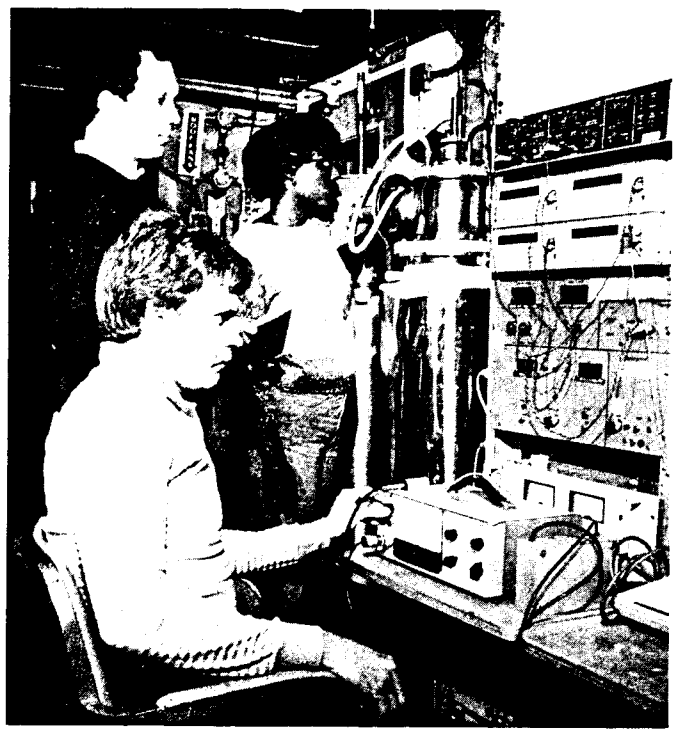
BROOKHAVEN BULLETIN
Vol. 40 - No. 16 April 18, 1986
BROOKHAVEN NATIONAL LABORATORY



Peter Horton

Leslie Reynolds, right, puts a sample probe into the superconducting magnet used in her study of bone growth, while Joseph Kehayias, left, watches Ed Sperry, foreground, adjust the magnetic field. The magnet is housed in Bldg. 960, in the magnet R&D group within High Energy Facilities.

Student Investigates Effect of Magnetic Field on Bone Growth

For Leslie Reynolds, it has been a perfect match. Reynolds arrived at Brookhaven in January for a four-month term as a Semester Student and was assigned to do a project in the Medical Department. "If I had done the picking, it would have been my choice, too." she says.

Reynolds is studying the effect of a magnetic field on bone growth, using mice as a model system. She has been guided by Joseph Kehayias and Ken Ellis in the Medical Physics Group.

According to Ellis, various studies on effects of magnetic fields are routinely reported in the scientific literature. One intriguing publication caught his attention last year. It was on work done by researchers at the University of Illinois, who exposed young mice to a low magnetic field and saw a sizable increase in bone growth.

Reynolds's project has two parts: to reproduce the Illinois study, for which the mice were exposed to a magnetic field of 1 tesla; and to repeat the experiment with an exposure of 7 teslas.

With the help of Ed Sperry, High Energy Facilities, and Tony LoMonte, Medical, Reynolds began by giving the animals daily exposures for a two-week period, using a superconducting magnet provided by Meyer Garber, Department of Applied Science. To quantify the net effect on their skeletons, she next used an established technique of exposing the mice to low-intensity neutrons from the Medical reactor, thereby activating the calcium. She then placed the animals in a special detector to measure the calcium. Seiichi Yasumura and Roman Shypailo, both of Medical, also assisted her at various stages.

At this date, all the exposures are done and Reynolds has begun analyzing data.

"She will have answers before she leaves," says Joseph Kehayias. The project was designed to be completed in a short time period. That's because it fits in with ongoing research in the group, which has done long-standing work on calcium metabolism. Also, the superconducting magnet used by Reynolds was originally built for an exploratory research project to develop applications of nuclear magnetic resonance (NMR) spectroscopy to basic medical research. Kehayias, Ellis and Garber, along with William Sampson of High Energy Facilities, work on the NMR project jointly.

The Medical Physics Group has taken Semester Students under its wing for the past six years. Reynolds is not new to student intern programs, either. She spent a summer at the Kennedy Space Center in Florida and at the medical school in East Carolina University, North Carolina. She is now a junior at Hampton University in Virginia, majoring in biology.

"Hampton is small," she says. "The equipment and facilities I'm using here [at Brookhaven] are not available there. I get more experience by participating in programs like this." She also says that here, she's been working independently. "I'm allowed to run the experiment the way I think it should be done, within limits. When you're allowed to operate that way, you grow in confidence."

She adds that her biology background helped her understand the project and feel comfortable with it. Also, she was already experienced in handling animals.

Reynolds is interested in continuing her studies to obtain both a Ph.D. in pharmacology, with the intent of doing drug-related research, and an M.D. in family practice. She wants to combine research with private practice.

May 1 is the due date for a written report on her project and an oral presentation. Speaking like a pro, she says, "I'll be ready. I've been preparing as I go along." — Mona S. Rowe

Editor's Note: Leslie Reynolds is one of seven Semester Students this term. Her fellow students are Joy LeDoux, Jackson State University, who is working with Gil Rowe, DAS; Betty Logan, Alcorn State University, with William Slegeir, DAS; Harrison Mitchell, York College, with Lucian Wielopolski, Medical; Marza Smith, York College, with Eugene Premuzic, DAS; Kevin Strickland, Jackson State University, also with Premuzic; and Andrea Walker, Hampton University, with Jay Leonard, Medical.

The students take morning classes in biochemistry, microbiology and physical chemistry, which are taught, respectively, by Larisa Rudenko, Biology; James Vaughn, DAS; and Ralph Weston and colleagues in Chemistry. Afternoons are reserved for work on their assigned projects.

The Brookhaven Semester Student Program was begun in 1968 to encourage black students to enter scientific fields by giving them first-hand research experience.

People Are Her Business

When Jannifer Hill came to New York from Dallas, to enter graduate school, what surprised her was the diversity of architecture in New York. Coming from a "brand-new" city like Dallas, she was astonished to find so many old buildings in Manhattan. What didn't surprise her was that the people were the same.

And people are her business. Jannifer Hill is a psychologist who joined BNL on March 31 to head the Employee Assistance Program, a position left open by the departure of Judith Katsin in December.

Before she came to BNL, Hill was a senior psychologist at the Harlem Hospital Center, where she acted as a clinician and co-director of an adult inpatient unit. She also treated children at the Brooklyn Center for Psychotherapy and engaged in private practice in Brooklyn. She received her Ph.D. in clinical psychology from the City University of New York.

Hill says that probably her greatest strength is in interpersonal problems, such as marital and family conflicts, and in developing training programs. Besides her clinical work at BNL, it is her intention to emphasize employee awareness training, for instance, how to recognize early signs of drug and alcohol abuse. Says Hill, "Supervisors are not being good guys when they cover up for workers who have deteriorating work records. It is better to try and find out what the problem is and encourage the employee to get help. Of course, it can also be the supervisor who has the problem. It's O.K. to have the problem. The point is, what do you want to do about it?"

In Dallas, where she grew up, Hill decided in high school to become a psychologist. At the experimental school which she attended, students were apprenticed to professionals in various areas and after her apprenticeship to a psychologist, Hill knew where she wanted to go.

Four years later, with a B.Sc. *cum laude,* from Southern Methodist University, Hill started work in her chosen field. She counseled adolescents at the Dallas County Juvenile Home, participated in a summer program to help economically disadvantaged youth in Los Angeles, and was patient ombudsman, assisting emergency patients, at Parkland Memorial Hospital.

Mort Rosen

Jannifer Hill

While she was getting her Ph.D., Hill spent two years at the Harvard Medical School as an instructor in psychology. During the first year, she was also a clinical fellow in psychology in the Department of Psychiatry, and a psychology intern at Beth Israel Hospital in Boston.

As she worked her way through graduate school, Hill generally juggled two or three jobs along with her studies. Some of these were: teaching at the Medgar Evers Community College, developing a vocational assessment battery for clerical workers and manual laborers at the Veteran's Upgrade Center, and designing instructional materials for the college tutorial program at the Borough of Manhattan Community College.

Dr. Hill has been busy the last two weeks meeting the Brookhaven staff and becoming acquainted with the therapists and facilities on the referral list. Employees can reach her on Ext. 4567. Her office is located at Room 5-5 in the Medical department, just past the x-ray room. All visits and files are confidential.

The Employee Assistance Program has been in effect since 1981. All regular-full-time employees and eligible part-time employees of BNL, AUI and the Brookhaven Area Office of DOE may use the services provided. For treatment by offsite professionals, employees can use applicable medical insurance benefits.

Brazilian Briefed on Research Reactors

During a visit to the Lab on April 8, the President of the Brazilian Nuclear Energy Commission, Rex Nazare Alves (left), discussed the fueling of high performance research reactors with Senior Physicist Joseph Hendrie (right).

At BNL during an official visit to the U.S., Alvez was briefed on the Lab's research reactors, and he inquired about such user facilities as the National Synchrotron Light Source. Scientist Ralph Fairchild showed Alvez BNL's Medical Reactor, and Reactor Division Deputy Head David Rorer took him through the HFBR.

Brazil is considering the building of a new research reactor, so Alvez spoke to Department of Nuclear Energy Deputy Chairman

Mort Rosen

Walter Kato, Associate Chairman Robert Bari and Hendrie regarding BNL's reactor safety analysis research and work for the U.S. Nuclear Regulatory Commission.

To Your Health

"Alzheimer's Disease: It's Not All Hopeless," is the title of the next Health Promotion Seminar to be given by Psychiatrist Paul Helms, director of the geriatric psychiatry program at University Hospital, Stony Brook. The talk will be presented from noon to 1 p.m. on Tuesday, April 22, in Room B, Berkner Hall.

Alzheimer's disease is a chronic brain syndrome usually occurring in people under fifty that is characterized by intellectual deterioration, impairment of judgment and emotional instability. Helms will discuss the diagnosis of the disease and how it is differentiated from senile dementia associated with old age. While stressing there is no cure, he will talk about medication used to treat the symptoms associated with Alzheimer's, as well as individual strategies and community resources for caring for its victims and assisting their families.

As Helms will outline, he is optimistic about the future because of promising research and growing interest in the disease and geriatric medicine in general.

PSI News

The Upton Chapter of PSI will meet on Monday, April 21, at 6 p.m. in Berkner Hall, Room C. On the program is the movie "Emerging Woman," which shows the role of American women from Colonial times to the present.

The movie will also be shown at noon in Berkner Hall on April 22 for the benefit of the PSI Upton Chapter Scholarship Fund. Donation is $1.

AMIGA Demo

The Commodore Users Club is pleased to announce that the new AMIGA Computer will be demonstrated by Allen Shiplet of The Working Computer Store in Stony Brook.

We have all heard of the power of this machine; few have seen it and still fewer own one. Here is your chance to see what the shouting is about. The demo will be held at the Snyder Seminar Room, Bldg. 911A, on Tuesday, April 22, at noon.

Cafeteria Menu

Week of April 21

Monday, April 21		
Chicken noodle soup	(cup)	.65
	(bowl)	.85
BBQ pork chops w/1 veg.		2.45
Broiled chicken w/1 veg.		2.45
Hot Deli: Grilled Reuben		2.45
Tuesday, April 22		
Lentil soup	(cup)	.65
	(bowl)	.85
Veal Madeline w/1 veg.		2.45
Roast veal w/1 veg.		2.45
Broiled fish w/1 veg.		2.65
Hot Deli: Sloppy Joe		2.25
Wednesday, April 23		
French onion soup w/croutons	(cup)	.65
	(bowl)	.85
Broiled chicken livers w/1 veg.		2.45
Roast pork loin w/apples & prunes		2.45
Broccoli cheddar quiche w/1 veg.		2.45
Hot Deli: Garden club, roast beef		2.45
Thursday, April 24		
Potato leek soup	(cup)	.65
	(bowl)	.85
Smothered round steak w/1 veg.		2.45
Fresh ham w/1 veg.		2.45
Hot Deli: Roast beef	(bread)	2.30
	(roll)	2.45
Friday, April 25		
Vegetable beef soup	(cup)	.65
	(bowl)	.85
Baked pork chop w/1 veg.		2.45
Southern fried chicken w/1 veg.		2.45
Hot Deli: Fresh ham	(bread)	2.45
	(roll)	2.60
— Top your own baked potato —		1.50

Arrivals & Departures

Arrivals

John E. Kenny ..... Plant Eng.
Jennifer M. Slater ..... DAS

Departures

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

Armin Pfoh ..... Physics
Andrew A. Gonzales ..... Sfgds. & Sec.

Moving With the Times

Isabell Harrity is secretary to the High Energy Theory Group in the Physics Department and, as such, she must deal with the latest in scientific terms and mathematical equations, before which many would quail.

In the past, at least part of these equations had to be inserted by hand, but now a computer can do the whole thing. Does this, then, eliminate the secretary? "No, the professional secretary will always have a place," responds Harrity, "but we have to be willing to accept change to become part of the new technology." And she is moving with the times.

With the help of Eric Myers, a postdoc in her department, and Frank Paige, a physicist, she is learning TEX, a program which generates texts that meet the standards adopted by the American Mathematical Society for its journal. The computer handles all scientific and mathematical notations and the finished product looks like a high quality journal preprint. If a scientist is going to CERN, say, and wants to make some changes in his manuscript, he can just take along the floppy disk and log in his amendments on the computer. Harrity says it provides an option for scientists who prefer to do their own editing or rewriting. At present, she is the only secretary in Physics who is familiar with this program, and she is looking forward to taking classes to learn more.

Harrity is a member of the Upton chapter of Professional Secretaries International (PSI) an organization devoted to encouraging secretaries to keep active and further their education. Currently she is chairing a PSI committee which will work with Personnel on developing a secretary's manual adapted to the Lab's particular requirements. BNL secretaries are asked to call her with their suggestions as to content.

Isabell Harrity was brought up in Utah, in a small town called Highland Boy. The last time she was there, she says, the town had succumbed to copper mining operations and was no longer in evidence. She joined the Air Force in the 1950's and ended up in Germany as a cryptographer. There, she met her husband, William Harrity, and the union has produced three children and, to date, two grandchildren. The Harritys moved to Long Island in 1961.

In the early 60's she worked at Physical Review Letters when it was located on the Lab site. There she learned "the scientific typing business," but her young children required her presence and she left Phys. Rev. After working in other areas, she returned to the scientific business in 1978 when she was hired at the Institute for Theoretical Physics, SUNY at Stony Brook.

Mort Rosen

Isabell Harrity

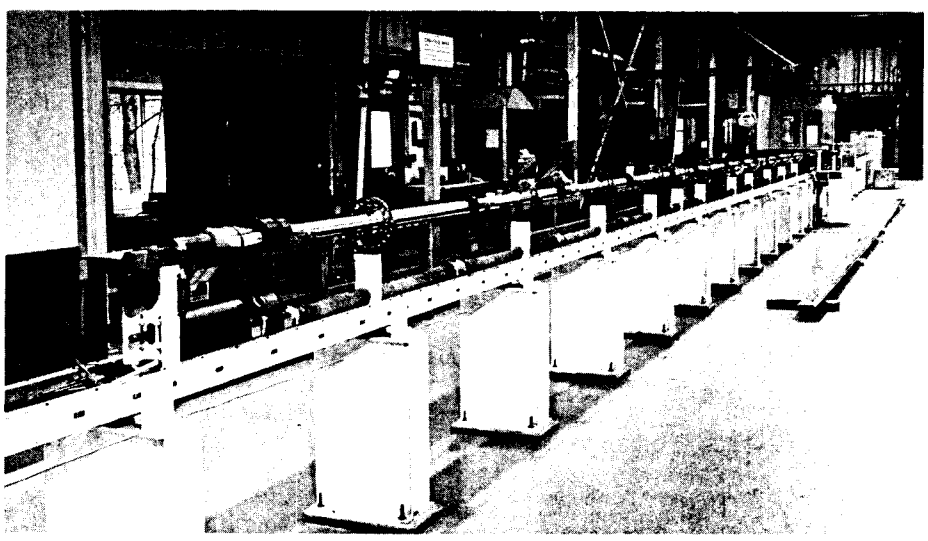
She came to Brookhaven in 1981 and has found the people in her group stimulating; "They are always encouraging me to learn new things and they are patient." Her job has also entailed some traveling; to Aspen, Colorado and to Erice, Italy in 1984 as conference secretary.

Professional Secretaries Week
April 20-26

It's a Fact

According to the Long Island Gazetteer, many Suffolk communities started out with different names.

Present Name	Former Name(s)
Baiting Hollow	Fresh Ponds
Bay Shore	Sodom, Penataquit, Mechanicsville
Bayport	Mid-Road Ville and Middle Road
Belle Terre	Oak Wood
Bellport	Acombomack, Occumbomuck, Occombomock
Blue Point	Manowtasquott or Manowtussquott
Brentwood	Modern Times
Bridgehampton	Feversham, BullHead, and Northampton
Brookhaven Hamlet	Fire Place
Calverton	Conungum, Hulse's Turnout, and Baiting Hollow Station
Centereach	New Village and West Middle Island
Centerport	Little Cow Harbor
Central Islip	North Islip and Suffolk Station
Cherry Grove	Racoon Woods
East Hampton	Maidstone
East Marion	Rocky or Rocco Point
East Northport	Clay Pit and Larkfield
Eastport	Seatuck, Moriches Station, Waterville
Farmingville	Bald Hills
Greenport	Sterling, Sterling Harbour, Greenhill The Winter Harbor, and The Farms
Hauppauge	Wingan Hoppoge, Hoppoggs, Pleasant Springs, Wheeler's
Huntington	Hunting Town
Jamesport	Old Aquebogue, Miamog, and Mianrogue
Kings Park	Sunk Meadow and St. Johnland
Lake Grove	Lakeville
Lake Panamoka	Long Pond
Laurel	Franklinville
Lindenhurst	Breslau
Manorville	Manor, Punk's Hole
Mastic	Paynesville
Middle Island	Middletown and Brookhaven
Miller Place	Miller's Landing
Montauk	Mirrachtauhacky
Moriches	Meroges
Mount Sinai	Nonowantuck, Old Man's Village
Northport	Cow Harbor, Harbor, To the Harbor and Bryant's Landing
Orient	Oyster Ponds
Peconic	Hermitage
Port Jefferson	Drowned Meadow, Souwassett, Sowassett, Sonassett
Port Jefferson Station	Comsewogue, Echo
Ridge	Randallville, Ridgeville
Sag Harbor	Harbor of Sagg, Sagaponack Harbor, Bridgehampton Bay
Sagaponack	Sagg Village or Sagg
St. James	Boomertown, Splinter Village, St. Jamesville
Selden	Westfield
Setauket	Ashford, Cromwell Bay
Shoreham	Woodville Landing
Smithtown	Nissequogue, Smithtown Branch, Smythfield, Smiths Town, Smyth Town, Smith-Town. Head of the River, Head of the Tide Water
South Haven,	Connecticott, Fireplace, Parish of Southhaven, The Mills, Setauket South
Southold	Toyong, The South Hold
Springs	The Springs, Accabonac
Stony Brook	Cutsgunsuck, Cussquontuck, Memanusack
Wading River	Westhold
Westhampton	Beaverdam
Wyandanch	West Deer Park, Wiandance, Sqiaw-Pit, Squam-Pit and variations such as Weandance and Weyrinteynich
Yaphank	Millville, Brookfield, East Middle Island



Peter Horton

Pictured here is 120 feet of versatility. Located in Bldg. 924, this machine is designed for winding coils for superconducting magnets. In February, it was used by the Magnet Division of the Accelerator Development Branch of High Energy Facilities to wind coils 17 meters long (about 55 feet) for full-length R&D magnets for the proposed Superconducting Super Collider (SSC). Last week, it wound coils of a different design for the first full-length prototype magnet for the Relativistic Heavy Ion Collider (RHIC) proposed at BNL. At 9.7 meters (almost 32 feet), the RHIC magnets are shorter than those for the SSC, but the ends are straight, rather than flared as in the SSC coil above, and more components must be added during the winding process. Thirty-three turns are required to wind each RHIC magnet coil, a process that takes about 20 hours.

Small Set Big on Science

This past Saturday, the cafeteria was transformed from a sedate dining area into a bustling crowd scene, as hundreds of budding young scientists participated in Brookhaven's second annual Elementary School Science Fair. Counting students, families and friends, nearly a thousand people jammed Berkner as they explored the projects displayed on tables, taped to walls and propped up on the floor.

Over 250 projects were entered, on an amazing variety of topics ranging from a comparison of the absorbency rate of common paper towels to a study of the effect of ampicillin on the metamorphic stages of mealworms. All projects were done by students from kindergarten through sixth grade, representing a total of 65 Suffolk County schools.

Top honors for the day were won by the following youngsters:

Kindergarten - Catherine Russo, Wading River School, "Pea Planter."

1st Grade - Daniel Durand, Briarcliff School in Shoreham, "What is the dog food my dog likes best?"

2nd Grade - John Pennacchia, Ridge School, "Brrr, it's cold."

3rd Grade - Jason Link and Brian Sullivan, E. Quogue Elementary, "Insulin Dependent Diabetes."

4th Grade - Kyra Santicola, Tecumseh Elementary School in Farmingville, "How does identical activity affect the pulse rate of identical twins?"

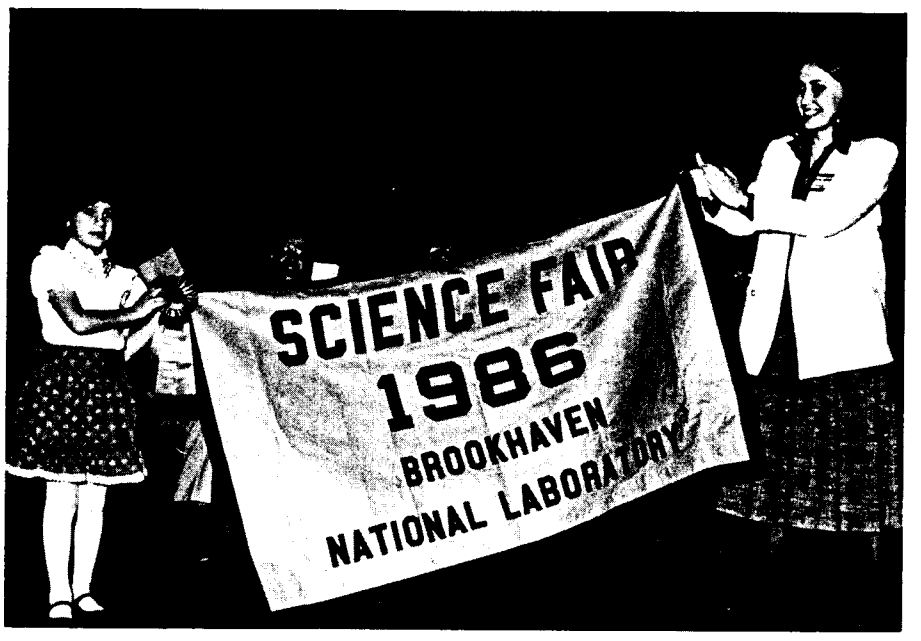
5th Grade - Andrew Margolis, Branch Brook Elementary School in Hauppauge, "Constructing a Fire Alarm."

6th Grade - Edward Newman, Mark Country Day School in Bay Shore, "Add a Little Spice to Your Life."

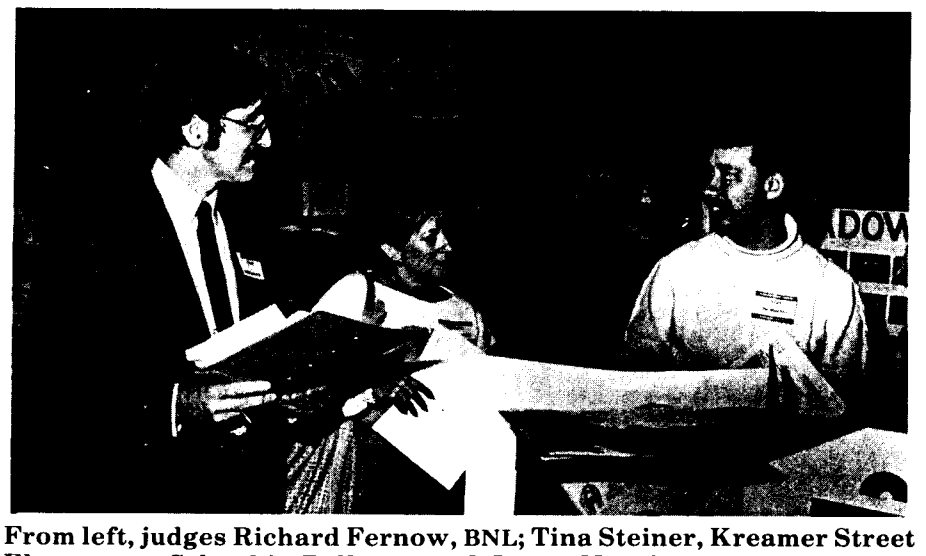
Brookhaven scientists and local elementary school teachers served as judges, selecting the winning projects for their high level of scientific thought, creative ability, thoroughness and clarity. The winning students received blue rosettes, as well as banners to be displayed in their schools.

The science fair was the brainchild of a joint committee of local educators and Lab personnel, chaired by BNL's Don Metz, Head of the Office of Educational Programs. Out of that original group, a science fair committee, chaired by Janet Tempel, BNL Public Relations, was formed to organize and run the event. That science committee included Metz and two other BNL Public Relations staffers, Jackie Mirzadeh and Eloise Gmur.

Serving as BNL judges were Angela Boccio, Medical; Bruce Brunschwig, Chemistry; Michael Creutz, Physics; Susan Eng, AMD; Richard Fernow, Physics; Nicholas Gmur, NSLS; Louise Hanson, DAS; James Murphy, NSLS; John Nagy, DAS; Gus Prince, DNE; Michael Rowe, DAS; Graham Smith, Instrumentation; Deborah Spikes, Biology; and Peter Yamin, AGS.



Catherine Russo, a kindergartner at Wading River School, gets help from Jackie Mirzadeh, BNL, in displaying the banner she will take back to her school as winner in her grade level.



From left, judges Richard Fernow, BNL; Tina Steiner, Kreamer Street Elementary School in Bellport; and James Murphy, BNL, discuss the entries for 2nd grade. —photos by Horton

Daniel Durand, winner in the first-grade category, did a top-notch job of investigating different brands of dog food to find out which one his dog liked best. Durand is a student at Briarcliff School in Shoreham.

Runners Corner

For the third year in a row, the Brookhaven Lab Running Club won the corporate division of the 4th annual Dix Hills Running Club six-mile race. The club entered three 3-man teams, and the winning team included Terry Sullivan (1st overall of 750 runners, 19:55), Peter Boni (6th overall, 20:55) and Jerry Hastings (33rd overall, 23:04). Sullivan has won the last three competitions held on the course at distances of 5.2, 5, and 4 miles. Other age-group awards were won by Peter Boni (2nd, 30-39), and Don Mackenzie and Gus Prince (1st and 2nd,, 60-69). Also on the teams were Joe Bauernfeind, Skip Medeiros, Ed Meier, and Jose Pires, each with a personal best for four miles.

Swimming Pool

Tickets for a new pool season, beginning Thursday, May 1, through Sunday, August 31, will be sold at the swimming pool during regular pool hours starting May 1.

Fees:

Season Tickets (fees not prorated)	
Individual Membership	$25.00
Family Membership	35.00
Daily Admissions	
Employee/Family Member	1.25
Guest	1.75

***Schedule**

Monday through Friday
Employees only 11 a.m. to 1:30 p.m.
Employees, Families & Guests 5 p.m. to 9:30 p.m.

Saturday and Sunday
Employees, Families & Guests 1 p.m. to 6 p.m.

The swimming pool is closed on all Laboratory holidays.

*Summer season will begin June 30.

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 are permitted. When such an arrangement is made, the Recreation Office issues an admission card stating the sponsor's name, 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.

Cooking Exchange

The Cooking Exchange meeting on Wednesday, April 23 will feature special diet dishes.

Meetings are held in the Recreation Building between 12:30 and 2:30 p.m. and are open to employees and their immediate family members. A donation of $1.25 per person entitles those present to copies of the day's recipes, samples of the dishes prepared and coffee or tea.

Golf

The first tournament of the Brookhaven Golf Association season will be held on Thursday, May 1, at the Bellport Country Club. Tee times will begin at 11:30 a.m. and may be obtained by contacting Doug Sweely, Ext. 4237, Bldg. 535B.

The number of players may have to be limited, and if so, preference will be given to Association members. There will be a $1 entry fee for BGA members and a $2 entry fee for non-members. Deadline for signing up for the tournament is Monday, April 28. Greens fees will be $9. The tournament will be run using the Callaway handicapping system.

Bowling

Purple League

Sharon Smith rolled a 233, Ken Riker 229, Fran Brown 212/189, Clem Auguste 212, Ed Sperry 211, Lee Barberich 207, Tony Natoli 201, Joe Mayeski 200, Marge Stoeckel 188/180, Mary Grace Meier 187.

Red/Green League

N. Combatti had games of 232/209/607 scratch, T. Prach 213, L. Jacobson 212, J. Carroll 208, R. Larsen 207/203, R. Adams 206, H. Arnesen 201, K. Riker 201, E. Sperry IV 201, H. Marshall 200.

White League

Ed Sperry IV had games of 246/223/639 scratch, Jim Vogel 232, Vito Manzella 213, Dick Adams 212, Nate Carter 205, Tom Holmquist 205, Kathy Griffin 198, Kay Conklin 189, Pat Manzella 187.

Trip to D.C.

The next flight of the Aviation Club will be on Saturday, April 19, to Washington, D.C. Non-members are eligible to participate. Future flights are planned for June, and throughout the summer and fall. Call Audrey Karzenski, Ext. 3962, to check if space is available.

Volleyball

The Volleyball Awards Dinner will be held at Rock Hill Country Club in Manorville on Friday, May 16, at 6 p.m. Tickets are $7 per League member and $11 for guests, which includes hot and cold buffet, free beer (while it lasts) and a dee-jay. A cash bar is available for mixed drinks. Tickets are available from team captains and will not be sold at the door.

League I	W-L
Dinkers	55-4
UpFaGrabs	44-15
X-Rayted	31-28
Bumpers	24-35
Net Results	13-46
TNT	10-49
League II	
Phoubars	59-0
Nuts & Bolts	34-25
Fossils	30-29
Chungas Revenge	27-32
Cannonballs	23-36
Upton-Ups	4-59
League III	
Print-Outs	42-18
Foul-Ups II	40-20
Screwballs	31-29
The Buddys	28-32
Light 'n Lively	22-38
Couples	17-43
Open League	
Odds & Sods	47-7
Dakota	44-10
Phoenix	38-16
Court Jesters	23-31
Generic	13-41
Out of Control	2-52

BROOKHAVEN BULLETIN

Published weekly
for the employees of
BROOKHAVEN NATIONAL LABORATORY

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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.

THE VACANCIES LISTED BELOW HAVE BEEN EXEMPTED BY THE DIRECTOR'S OFFICE FROM THE CURRENT FREEZE ON OPEN REQUISITIONS.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2423. ENGINEERING POSITION - Requires BSEE or equivalent and a minimum of 5 years' experience. Responsibilities include the development and implementation of NSLS personnel safety hardware, interlock system testing, quality control and record keeping experience in analog/digital logic systems, process control and fault analysis is desirable. Experimental Program Support Section, National Synchrotron Light Source Department.

2424. TECHNICAL POSITION - Requires AAS in electro-mechanical technology or equivalent experience. Will construct and assist in the design, development and testing of prototype novel detectors of nuclear radiation. Will construct and layout precision fine wire electrodes for multiwire proportional chambers. Knowledge of the following areas is desirable: electronic testing of detectors, handling of compressed gasses, vacuum practice, clean room practice, high voltage and cryogenic liquid handling. Instrumentation Division. Reposting of Job No. 2414.

Autos & Auto Supplies

75 BUICK LESABRE - 65k mi., 2 dr., immac., p/s, p/b, a/c, $2,300. 924-3236.

76 BMW 2002 - all orig., well maint., $3,900. 765-1302 after 6 p.m.

83 DATSUN STANZA XE - 4 dr., h/b, a/t, a/c, gauges, $6,300. 924-6348.

79 CAMARO Z28 - a/t, 350 cu, all power, tilt wheel, a/c, $5,000. 281-0474 after 5 p.m.

83 DODGE ARIES - 4 dr. sedan, a/c, p/b, p/s, a/t, c/c, am/fm stereo, excel. cond., $4,290. Bob, Ext. 5308 or 878-1731.

73 HORNET - h/b, good cond., $400. Jerry, Ext. 7427 or 475-5591 after 6 p.m.

82 HONDA ACCORD - 4 dr., 5 spd., 63k mi., silver, excel. cond., $5,900. Russ, Ext. 3059 or 698-9364.

TIRES - F78-14 ww, new, $60 pr.; E78-14 ww, snows, on Ford rims, used 2 seasons, $30 pr. Ken, 281-6070.

80 CHEVY MONZA - h/b, 4 cyl., good int., body, new tires, brakes, clutch, excel., $1,295. 751-4822.

75 CHEVY WAGON - runs well, good tires, air shocks, new carb., new disc brakes, p/s, p/b, a/c, reliable, reg. gas. Ext. 3238 or 744-1194 after 5 p.m.

75 VW BUS - needs some front end body, reb. eng., $300 firm; 74 MG, needs some body work and top, motor excel., $450 firm. Ext. 7633 or 395-3648.

78 TOYOTA CORONA - a/t, good running cond., 71k mi., 4 dr., reliable transp., $1,600. Paul, Ext. 2872.

74 DATSUN 610 - 4 spd., Pirrelli radials, Die Hard battery, mag wheels, reb. eng., $650. Ext. 5288 or 878-8177.

77 FORD GRANADA - 6 cyl., 2 dr., a/t, a/c, p/s, excel. cond. 265-4715 after 6 p.m.

81 DATSUN 210 - a/c, a/t, am/fm cassette, $2,500. 286-2205.

76 OLDS OMEGA - 260 V8, low mi., p/s, p/b, am/fm stereo casette, new brakes, exhaust, shocks, tires, excel. Ext. 5042 or 467-8297.

80 HONDA PASSPORT - motorcycle, 3 spd., auto. clutch, 2 pass. seat, great gas mileage, $400; 81 Pontiac Phoenix, 4 dr., a/t, p/s, p/b, mpg, $1,900; 78 Chevette, 2 dr., 4 spd., good mpg, good cond., $1,300. Ext. 7145 or 286-9700.

82 KAWASAKI 440 LTD - new in 84, belt drive, low mi., mint, $1,100. Ext. 4666.

79 YAMAHA 650 - Special, excel. cond., extras, $900. Ext. 2223 or 929-6421.

CHEVY HEADS - 350 V8, $25 pr.; 15" Chevy rims, $15 pr. Fred, Ext. 4798.

80 HONDA CIVIC - 1500 DX, 5 spd., am/fm, 8 track, new exhaust & trans., 90k mi., $1,800. Yen, Ext. 3871 or 3073.

76 TOYOTA CELICA ST - a/c, am/fm, white/brown roof, good cond., $850. 281-2040.

78 BUICK REGAL - 2 dr., a/c, p/s, p/b, 70k mi., excel. cond., 2,500. Lori, 286-8794 after 6 p.m.

77 OLDS CUTLASS - good cond., p/s, a/t, p/b, 6 cyl., 73k mi., $2,000. Ext. 2260 or 286-1214.

74 FORD COACHMAN CAMPER - good in/out, 38k mi., sleeps 8, $10,500. Tom, 369-2414.

78 CHEVY PICKUP - 4 WD, roll bar, am/fm cassette, good cond., $5,500. Ext. 5318 or 727-6280 after 6 p.m.

77 TERRY TRAVEL TRAILER - self contained, a/c, awning, TV antenna, shower/bath, excel. cond., $5,600. 751-7140.

77 MONTE CARLO - p/s, p/b, a/t, new exhaust sys., 77k mi., excel. cond., $1,900. Jim, Ext. 4758.

TIRES - rims, caps, (2), Sears Roadhandler SR P185/75R14, ww, on 14" Toyota rims, excel., $125 pr. Lloyd, Ext. 3381 or 286-1024.

78 CHEVETTE - well maintained, reliable transp., good mi., $1,195. Bob M., Ext. 2514 or 757-3178 eves.

83 HONDA CIVIC 1500 DX - a/c, stereo cassette console, mint, $5,500. Bob, 929-3061 after 6 p.m.

74 DATSUN PICKUP - w/cap, excel. cond., new tires, exhaust, clutch, no rust, $1,395. Ted, Ext. 7992 or 821-2569.

75 PLYMOUTH VALIANT - 6 cyl., 4 dr., very good running cond., $100 or best offer. Ext. 4099 or 689-9214.

74 BUICK APOLLO - a/t, p/s, p/b, a/c, am/fm, 4 dr., 90k mi., very good cond., $900 or best offer. Ext. 3701 or 751-8128 eves.

75 CHEVY MALIBU - 4 dr., a/t, a/c, p/s, p/b, stereo, runs well, some body work, $300. Ext. 3233 after 6 p.m.

73 VW SQUAREBACK - std., new alt., batt., runs well, dependable, $695. Ext. 4463 or 751-2422.

SUZUKI GS250T - 10k mi., extras, excel. cond., $649; truck cap, custom Toyota short bed, $299. Jack, Ext. 4411 or 929-8287.

78 CADILLAC FLEETWOOD BROUGHAM - like new, $3,900. 475-4596.

74 MUSTANG II - good for parts, many new, best offer over $100. Ken, Ext. 5042.

76 HONDA 750K - good cond. 363-7032.

CHEVY 3-SPD. STANDARD TRANS. - low mi., $75. Joe, 929-8321.

TOYOTA 4-SPEAKER STEREO - am/fm radio, no speakers, $40; 84 Ford truck manuals, (4) books, $30. Ext. 4095 or 477-2269 after 5:30 p.m.

72 YAMAHA MOTORCYCLE - gold, needs minor work, $125. Roy, Ext. 4664 or 473-5890.

84 HONDA 1000F - Interceptor, 7,500 mi., many spares. Larry, 567-0603.

78 SUZUKI GS750E - black, w/extras, runs excel., $650. 475-2716.

79 GMC JIMMY - mag wheels, running board, 40 channel CB, extras, 34k mi. 281-7035.

77 MONTE CARLO LANDAU - fully loaded, tilt wheel, excel. cond., 84k mi., $2,500. Rose, Ext. 3483.

73 CHEVY PICKUP - 4 WD, a/t, a/c, p/s, p/b, V8, stereo, 10x15 tires, rally wheels, running boards, $3,800. 269-9510.

77 PLYMOUTH ARROW 200 - 41k mi., 5 spd., a/c, radio, excel. cond., $1,500 or best offer. Ext. 2611 or 751-4098 after 6 p.m.

TIRE - P225X7515R, General, good cond. Tony, Ext. 2050.

79 FORD FAIRMONT - p/s, 4 cyl., $1,400; 72 Plymouth Duster, p/s, p/b, 6 cyl., $550. Ines, Ext. 3449 or 3092 eves.

79 HONDA HAWK - sissy bar, crash bar, other extras, $600. Rich, Ext. 4986 or 435-4316.

75 DUSTER PARTS - windows, doors, front grill, bumpers, etc., excel. cond. 924-0960 after 5 p.m.

73 DODGE CHARGER - 400 mtr., a/t, p/s, p/b, sunroof, many new parts, $2,000. Chris, Ext. 2326.

71 CHEVY KINGSWOOD SW - 9 pass., green, 67,367 mi. Edith, 744-3069.

67 TOYOTA - 4 spd., 4 cyl., 4 dr., runs well, $400. Hank, Ext. 3848 or 472-0553.

77 M/B 300D - diesel, good running cond., $10,000. Cesar, 281-9150 after 6 p.m.

73 CADILLAC COUPE DE VILLE - high mi., good cond., dependable, runs well, $575; Datsun 240Z, parts or whole car, $300. Frank, 399-4480.

80 PUCH MOPED - excel. cond., low mi. Frank, 589-5980 after 6 p.m.

75 BUICK LA SABRE - 65k mi., excel. cond., $2,300. 924-3236.

COX CAMPER - opens to 6x16, outside room, snap-on awning, sleeps 6, icebox, inside/outside tables, extra storage, picnic canopy, Coleman heater, $690. Ext. 4447 or 744-3919 eves.

84 CHRYSLER TOWNE & COUNTRY WAGON - fully loaded, mint cond., $6,950. 477-2262 after 6 p.m.

74 DODGE DART - 6 cyl., a/t, a/c, p/s, 78k mi., 2 dr., $600. 732-3105.

60 PONTIAC VENTURA - 4 dr., white, great for restoration, antique, $1,500. Arnold, Ext. 2050.

Boats & Marine Supplies

18' SHARPY - 1981, 48 HP marine eng., 6 gal. tank, good cond., $2,000. 749-0113 after 4 p.m.

BOAT HEATER - Boat Pal w/alcohol, $25; anchor light, dry cell, $10. Ext. 4745 or 722-4076.

SAIL FISH - excel. cond., yellow, $450. Ext. 3428 or 427-6738 eves.

OUTBOARD - 2 HP Johnson, ready to run, $150. 473-2473.

30' CATALINA - 1983, sloop, diesel, canvas, wheel, radio, in water, extras. 269-2974 or Ext. 2015.

OUTBOARD MOTOR - 33 HP Evinrude, good cond., $300. Ext. 3507 or 286-8794 after 6 p.m.

26' SAILBOAT - 1972, Pearson, 15 HP eng., 5 sails, incl. spin, DF. Ext. 3921 or 689-9214.

19' MFG - 1980, 70 HP Johnson motor, Tee Nee trailer, lines & cushions, $2,300. Gerry, Ext. 3694 or Bob, 281-8296.

600 LB. MUSHROOM - make offer. Ext. 4095 or 477-2269 after 5:30 p.m.

18' FIBREGLAS BOAT - Glastron, 115 HP Evinrude, elec., galvanized trailer, very good, $3,800. 269-9510.

INFLATABLE BOAT - 5 person, 1,200 lb capacity, w/20 lb Minnkote elec. motor, 12 volt battery, pr. oars, $600. 467-1014.

18' GLASTRON BOAT - 85 HP Johnson outboard, trailer, (2) 6 gal. tanks, $1,600. 369-1906 after 6 p.m.

18' FOUR WINNS - 1982, bowrider, 90 HP Mercury, galvanized trailer, low hours, excel., loaded, $7,900. 981-6141.

23' O'DAY - 1980, 7.5 HP Honda, 6 sails, full race equip., keel ctr. bd., electronics, extras, excel. cond., $15,400. Lloyd, Ext. 3381 or 286-1024.

Miscellaneous

TRAINS - elec., Lionel, A.F., Marx, engines, car sets and access., tin type and Marx clock works engines. Al, Ext. 4615 or 751-8462 eves.

REFRIGERATOR/FREEZER - GE, 30"W x 65"H x 24"D, harvest gold, like new cond., $200. 473-1456.

FREEZER - upright, 19 cu. ft., manual defrost, good cond., $100; Sears air cond., 11,000 BTU's, good cond., $150. John, Ext. 5152.

CLUB CHAIR - gold leaf design, very good cond., $55; Hoover floor polisher, $25; crystal and brass chandelier, $25. 273-5574.

FURNITURE - couch, chair, wet bar, small desk w/chair, four bar stools. 475-1254.

B/W TV - 12", like new, $30; child's bikeseat, $15; child's car seat, $10. Judith, 924-6129.

COLOR TV - 25", tube-type console, works, $20; bench press w/wts., $20; elec. organ, $200. Russ, Ext. 3059 or 698-9364.

SOFA - 90" crescent tufted, $150; Electrolux polisher/scrubber, $60; 59" loveseat, $100. Paul, Ext. 4156.

LAWN TRACTOR - Huffy, H1054, 8 HP, pull start, B&S, 26" cut, tuned up, $450. Ext. 3428 or 427-6738 eves.

KEROSUN HEATER - Corona, 22,000 btu, $70; Sears elect. typewriter, $65. 751-4822.

WEDDING DRESS - seed pearls and lace, w/small train, $75. 475-4199.

ROTOTILLER - 5 HP, 26" snow blade, large tires, chains, excel., $275. Otto, 472-0339.

MICROWAVE OVEN - med. size, Faberware, variable power, 35 min. timer, $75. Bill, Pager 923 or 281-0557.

SOFA BED - 6 mo. old, excel., $300. Ray, 289-0883.

PICTURE FRAMES - hardwood, all sizes, $50; 10-1/2 floor fan, $15; 26" girl's bike, all in excel. cond. Inan, Ext. 3370.

STEREO - Sanyo, am/fm, stereo radio, built-in cassette, turntable, (2) speakers, headphones, excel., $85. 289-0413.

FLOWER/VEGETABLES SEEDS - 4 and 6 pack, large selection, 80¢ per pack, del. week of 5/13. Ray, 727-6818.

TEEN BOY'S CLOTHING - sizes 10-12S, like new, some never worn, suit, dress pants, $5 per item or best offer. Cheryl, Ext. 2272 or 732-7634.

JUKE BOX - Seaburg, holds (80) 45 rpm records, very good cond., $600; modern chandelier, w/5 balloon style lightbulbs, $35. Ken, Ext. 4421 or 744-0722.

MARBLE COCKTAIL TABLE - Bassett, hard rock, 56" x 21", (2) draws, $95. Al, Ext. 4615 or 751-8462 after 6 p.m.

SANSUI STEREO RACK SYSTEM - w/extras, $600; 10 gal. fishtank, w/Diatom filter, extras, $50. Mark, Ext. 5350.

DINING ROOM SET - china cabinet, table w/pad & leaf, (6) chairs, $575. 924-0277.

FM ANTENNA - 6 ft., w/ mast, $15. Ext. 2831.

DRUM SET - Slingerland, double brass, (8) pc. set., good cond., $350. Bennett, Ext. 7732.

ANDERSON WINDOWS - (2) 28310W, white, double hung, w/mull. parts kit, trim kit, 46" by 34", $275. 878-0874.

FLUE HEAT RECOVERY DEVICE - Air-O-Space, 4K, $35; new wallpaper, beige, $8 ea. Susan, Ext. 4267.

LAWNMOWER - 18", you push, good cond., grass catcher, $35. Rau, Ext. 3864.

GREEN VELVET COUCH - w/chair, Spanish, $375; beige couch w/chair, $250. 758-7435 after 6 p.m.

MICROWAVE OVEN - Sears, 1.4 cu. ft., very clean, 1-1/2 yr. old., seldom used, new, $359, sell for $175. Ext. 2514.

MAXELL DISKS - 5-1/4", ds/dd, new, 10/$10. Jim, Ext. 3372.

GENERATOR - Honda, 1000W, extra quiet, almost new, $350; chain saw, Homelite, XL2, good cond., $100. 744-6432.

WOODWORKING TOOL - Shopsmith, multipurpose, woodworking tool, w/jointer attachment, totally reconditioned, classic, new $1,300, sell for $475. Ron, Ext. 3238.

MAGNAVOX STEREO - hi-fi console, $125; Wurlitzer organ, spinet, cherry, multimatic percussion, $750; Vespa Bravo moped, Super Deluxe, Class B, excel. cond., $450. Lloyd. Ext. 3381 or 286-1024.

MEMBERSHIPS - (2) Holiday/Jack Lalane Health Spa, VIP lifetime, $12 annual renewal free, make offer. Ext. 7716 or 744-4047.

SOFA - gold, excel. cond. Ext. 4192 or 751-7787.

ELEC. STOVE - Frigidaire, 24", good cond., $100. 286-0237.

RADIO SHACK LINE PRINTER 7 - dot matrix, serial/parallel, $65; Mr. Turtle kid's pool, w/slide, excel., $15; (3) section baby feeding dish, $5; baby tub w/sponge, $7. 744-9677.

SEARS AIR COMPRESSOR - 9 gallon tank, 150 psi, 1/2 HP, GE motor, $165. Karen, Ext. 4262.

COMPUTER MONITOR - color RGB, wood grain case, commercial 14" TOEI, for IBM Commodore, etc., $175. Roy, Ext. 4664 or (212) 691-4396.

FREEZER - United, commercial, heavy duty, 17 cu. ft., used 1 yr., $350. 281-2257.

TUFTED SOFA - 84", kidney shaped, white and gold, excel. cond., $125. 588-6853 after 6 p.m.

BEDSPREAD & DRAPES ENSEMBLE - queen; small bar w/2 stools. Sue, Ext. 7235 or 395-3529.

GIRL'S BIKE - 16", $25; girl's roller skates, size 4, $12. Gail, Ext. 3338.

WON(B) BIKE - new, 3 spd., $65; oak butcher's meat hook rack, $35; crock $15. 878-6637.

N.S.K. MICROMETERS - boxed set, (10) pieces, 6"-12", never used, $350. 924-6411.

55 GAL. DRUMS - (4), 2 for $5; tennis racket, like new, $20; Sears rotisserie oven, excel. cond., $20. 924-3236.

GREEN HOUSE - poly type, 22"x100", boiler, sprinkling sys., fan ventilating sys., heavy duty structure, $3,000. Jim, Ext. 4040 or 289-0876.

FREEZER - Westing., 16 cu. ft., upright, old but good cond. mech. cond., $65. Gerry, Ext. 3694 or Bob, 281-8296.

Free

CAT - all white, 7 mo., 1 yr. male tiger cat or kittens. 744-2821.

Yard Sale

E. PATCHOGUE - 4/19 & 20, 38 Evergreen Lane, S. Country Shores.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

For Rent

FARMINGVILLE - 1 bdrm. apt., single, $500 mo., incl. all util. & cable. 732-2141 before 1 p.m.

SHIRLEY - immaculate 3 bdrm. ranch, 1 bath, l/r, d/r, eik, w/w, utility rm., fenced-in yard, on quiet street, 1 mi. from bay, $750 mo. + util. 744-5448.

N. SHIRLEY - furn. studio, kit., priv. ent., 1 person only, nonsmoker, no pets, 5 min. from Lab & stores, security, $400 mo. incl. util. 281-8044.

SETAUKET - 8 rm. furn. house, 3 bdrms., avail. 6/1/86 to 4/30/87, no pets. Robb, Ext. 4348 or 751-0636.

BERKSHIRES CHALET - 3 hrs. from NYC, 3 bdrms., 2 baths, fully equipped kitchen, elec. heat, deck w/spectacular view, near lake, hiking trails, 1/2 hour from Tanglewood Theater, summer stock. 929-6946 after 6 p.m.

RONKONKOMA - near LIE & beach, immac., 3 bdrms., l/r, d/r, eik, w/w, storage rm., Connecticuot SD, $725 mo. plus util., avail. 5/1. Ext. 2676 or 543-0487.

HILTON HEAD, SC - 2 bdrm. condo., sleeps 6, beach, pool, tennis, golf, lowest rental on island, $400 wk. 585-9149.

PATCHOGUE - 1 bdrm. apt., eik, large l/r, util. incl., $650 mo. 654-8139 after 4 p.m.

SHAWNEE VILLA - vacation resort in the Pocono's, full accommodations for 6, week starting 6/7-6/14, $400 wk. Charlette, 348-2856 or 286-0913 after 5 p.m.

For Sale

OAKDALE - Idle Hour section, near water, 2-story Tudor, 4 bdrms., 2 baths, garage, attached apt. w/private ent., 1/2 acre on dead end st., $210,000. 363-6940 eves.

STONY BROOK - "S" section, 4 bdrms., 2 baths, cape, w/w, dishwasher, washer, dryer, patio, portico, fenced-in pool, 2-car garage, $147,990. 751-7140.

AQUEBOGUE - 20 min. to Lab, 1/3 acre, f/p, all appl., oak floors, fin. basement, 3 bdrms., 1-1/2 bath, town water, fenced-in back yard, treed lot, $129,500. 722-4644.

RIDGE - 3 bdrm. L-ranch, 4 mi. N. of BNL, gar., full bsmt, eik, 1/3 landscaped/fenced acre, coal stove, all appl., new w/w, storms & screens, sewers, extras, $119,000. Ext. 7716 or 744-4047.

OTSEGO COUNTY - 3 bdrm. house, modern kitchen & bath, furn., 1-1/2 car garage, 17.5 wooded acres, incl. stream, $51,900. 929-8287.

BROOKHAVEN HAMLET - 12 prime acres, trees & shrubs, large barn, 14" top soil, estate surrounding, sub-division in progress, terms. Jim, Ext. 4040 or 289-0876.

RIDGE - 1+ acre, 100+ ft. front, 400+ ft. depth, level, cleared, partly wooded, $49,500. 924-3236.

BELLPORT - 3 bdrms., fenced, 1/2 acre, l/r, d/r, eik, 1-1/2 car garage, bsmt., pool, deck, all appl., oak floors, $130,000. 286-2205.

Wanted

OUTBOARD - 4-5 HP. 473-2473.

BABYSITTER - on-site, occasional. Ext. 2831.

HOSPITAL BED - to borrow, rent or buy. 467-4222.

PICCOLO - for student, in working cond., reas. price, Daniel Slatkin, Bldg. 490.

HOUSE TO RENT - 7/4-8/4, 2 bdrm. min., near Lab or Stony Brook, visiting professor. Liu, 246-6108 or 751-3540.

FEMALE HOUSEMATE - own room, 6 mi. from Lab., $250 mo., incl. all. Pat, 281-0973 eves. and weekends.

ELECTRIC CEMENT MIXER - used reasonable price. 924-0960.

CHIPPER - shredder. 363-7032.

SAILBOAT CREW - for weekly races, experience not necessary, will teach. 744-2384 after 5:30 p.m.

SOFTWARE FOR APPLE II - must be cheap, also info. about Apple II user clubs. Ext. 2738 or 744-3361.

In Appreciation

The family of John L. Batdorf acknowledges with grateful appreciation your kind expressions of sympathy.

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