BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Mort Rosen

Pictured is the Brookhaven Symposium in Biology organizing committee: (from left, standing) BNL Associate Director for Life Sciences Richard Setlow; Matthew Witten, Illinois Institute of Technology; Ronald Hart, National Center For Toxicological Research, Arkansas; George Baker, University of Maryland; (from left, seated) Rajindar Sohal, Southern Methodist University; Committee Chair Avril Woodhead, BNL; and Symposium Coordinator Helen Kondratuk.

Why Do Animals Age?

"Aging Processes in Animals" was the main topic of conversation for 55 biologists from around the world during the 34th Brookhaven Symposium in Biology. Held at BNL on October 19-22, the symposium attempted to reconcile and correlate two opposing approaches to finding the cause for aging: the reductionism of molecular biologists versus the holism of naturalists. As nature deals with the whole organism, but operates beginning on the molecular level, the conference stressed the value of comparative, evolutionary and mathematical studies of aging (see accompanying story).

The titles of the eight symposium sessions were taken from chapters in *Essays Upon Heredity and Kindred Biological Problems,* by August Weismann. This 19th-century, German naturalist was one of the first to explore the relationship between evolutionary principles and the mechanisms of heredity and aging. The symposium lecture, "The Evolution of Species Longevity," given by George Baker of the University of Maryland, was dedicated to the late George Sacher of Argonne National Laboratory, who was a proponent of comparing species having different lifespans to explain the evolution of longevity.

A Visitor's View

Thomas Kirkwood, Theoretical Biologist

Youth is wasted on the young, an aging George Bernard Shaw is supposed to have said. As most of us would prefer to be eternally youthful, why do we age? Surely there is no advantage for an individual to age, so is there an evolutionary advantage to aging for the species? As succeeding species on the evolutionary scale have longer lifespans, is it longevity, not aging, that has evolved?

To find a scientific answer to these age-old, existential questions, Thomas Kirkwood, a staff scientist at the National Institute for Medical Research in London, England, has developed what he terms the Disposable Soma Theory. Kirkwood presented his explanation at the sixth session of the Brookhaven Symposium in Biology, "Aging Processes in Animals." This 34th annual meeting was held at the Lab on October 19-22 (see conference story).

Mort Rosen

Thomas Kirkwood

Kirkwood is a theoretical biologist who was awarded his Ph.D. in biology from the University of Cambridge, England. He had studied mathematics for his undergraduate degree and worked as a biostatistician. Combining these talents and working on the computer, he applies mathematical principles to biology, particularly to the phenomena of aging.

"Aging is a very complicated phenomenon in biology — people have been trying to understand it for a hundred years and more," explains Kirkwood. "We go through development, reach maturity and have bodies that look as if they could carry on indefinitely, but they don't. Our bodies age and we die. And there is no immediately obvious reason biologically why that is so."

For the survival of a species, the most important biological function is reproduction, and the longer an organism can reproduce, the fitter it is in terms of natural selection. While the cells composing an organism's body are mortal and the likelihood of mortality increases with age, reproductive cells do not age. They are immortal — there is an unbroken time line from them, extending backwards to the origin of terrestrial life and for-

(Continued on page 2)

G.v. Hevesy Memorial Medal Awarded to Alfred Wolf

At the IVth World Congress of Nuclear Medicine, held in Buenos Aires, Argentina, this week, Chemistry Department Chairman Alfred Wolf was awarded the Georg von Hevesy Memorial Medal. The award was presented to Wolf by the Georg von Hevesy Foundation of Switzerland. A letter Wolf received in August said the award was being made "to acknowledge your pioneering work — recognized world-wide — in the field of radiochemistry and radiopharmacy for the nuclear medicine community. [The foundation] also wishes to thank you for your most successful endeavours in the establishment of contacts and the exchange of ideas, worldwide, on the subject of scientific nuclear medicine."

Alfred Wolf

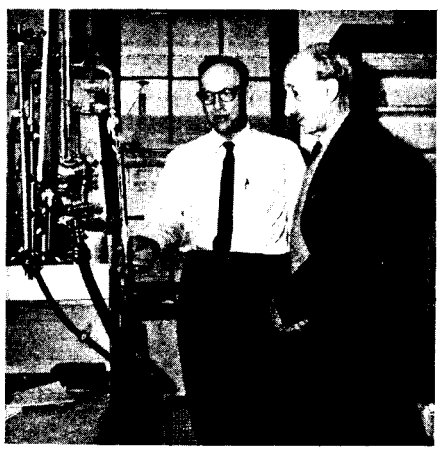
The work being cited, Wolf said, was done in the field of hot-atom chemistry and has been ongoing at BNL for about 30 years. "This is an example of government support of purely basic research that eventually led to direct applications in biological research." In particular, this work has focused on positron-emitting radionuclides and their relation to radiotracers, and it has led to the development of radiotracer methods in biology, for studying organs and metabolic processes in the human body.

This kind of research is directly related to von Hevesy, whom Wolf called "the father of the tracer method." Von Hevesy was awarded the Nobel Prize in Chemistry in 1943, and the research he initiated has continued to evolve. Today, for example, radionuclides produced in cyclotrons and incorporated into radiotracers are injected into patients. The radiotracers are taken up by specific areas of the body, and the photons generated by positron annihilation are detected by PET devices, yielding important biological insights.

BNL had one of the first cyclotron/PET centers in the country; today there are about 60 worldwide. "In a very short time," said Wolf, "estoeric research has been directly applied to the diagnosis and management of human disease." Wolf has been active in advising researchers in many countries about setting up cyclotron/PET centers, most recently in Greece and India.

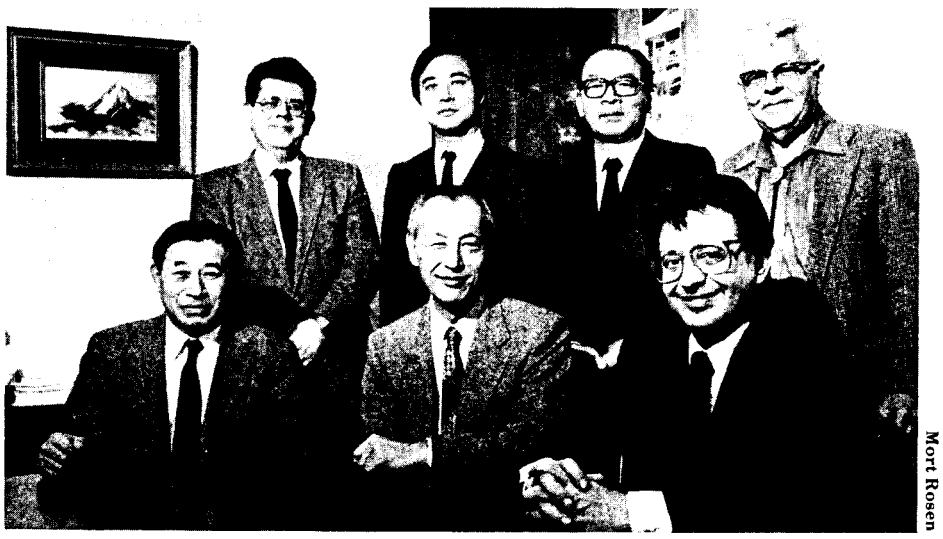
Alfred Wolf received his Ph.D. from Columbia University in 1952 and joined the staff of BNL's Chemistry Department in 1951. He has chaired the department since 1982. The von Hevesy award is but the latest in a long list of honors that have been bestowed upon him over the years, including the American Chemical Society Award in Nuclear Applications in 1971, the Society of Nuclear Medicine Paul Aebersold Award in 1981 and an honorary doctorate from the University of Uppsala in Sweden in 1983. This year, in addition to the von Hevesy medal, Wolf received the JARI Award, and he and his group received the Javits Neuroscience Investigator Award.

Reflecting on his most recent honor, Wolf said, "No one ever does this kind of thing alone. I could not have accomplished much without having a good group of people to work with."



In 1959, Georg von Hevesy (right) visited BNL, and Alfred Wolf showed him a device used here for counting the radiation emitted from the radiotracer carbon-14.

Cooperating on Research


Mort Rosen

Several research programs at BNL count researchers from Japanese universities and laboratories among their collaborators. Last week, a delegation from Japan visited Brookhaven, and later Fermi National Accelerator Laboratory and the Stanford Linear Accelerator Center, to review the status of Japan-U.S. programs of research cooperation. Pausing for this photo are: (seated, from left) Professor Yoshio Yamaguchi, Tokai University; Professor Sateo Hayakawa, Nagoya University; Laboratory Director Nicholas Samios; (standing, from left) Derek Lowenstein, Chairman, Alternating Gradient Synchrotron Department; Mr. Y. Sakitani, Ministry of Education, Science and Culture, Tokyo; Dr. K. Kikuchi, Vice Director of KEK, Japan's national laboratory for high energy physics; and H.L. Kinney, Special Assistant to the Director.

A Friend in History — Lou Harson, Camp Upton Historian

This Veterans Day, Lou Harson will be missed by those whom he called his "friends in history" — the veterans, their descendants, military historians, local history buffs and others who helped him compile the history of Camp Upton.

Harson died last week after a brief illness. Officially BNL's principal architect, Harson enjoyed a second vocation as Camp Upton's unofficial historian. The result of his vision, enthusiasm and energy is the Camp Upton Museum at the Exhibit Center, Harson's legacy to the Laboratory.

Harson has left behind invaluable historical papers, photographs and artifacts about Camp Upton, a World War I cantonment for the 77th Division from 1917-20 and a World War II induction center and rehabilitation hospital from 1940-46.

Researching local history in general and specifically the history of Camp Upton "is a very rewarding volunteer task," Harson said during an interview with the Bulletin two weeks before his death. "I got to meet wonderful people — people who are interested in preserving the history of Long Island and communicating it to future generations. They share a view of the importance of the continuity of the past, present and future."

A life-long local history buff, along with his wife Audrey, Harson did not set about to become the Camp Upton historian when he came to the Lab in 1963, but to read and learn more about the place where he worked.

Explained Harson, "At the time, I was working for Don Mallory [the former head of Plant Engineering from 1946 until his retirement in 1969], who was a major in the Army Corps of Engineers and the post engineer at Camp Upton. As he had been responsible for the construction converting Camp Upton from an induction center to a convalescent hospital, he was quite knowledgeable about that history."

The first contributions to what is now known as the Camp Upton historical collection came from Mallory: He presented Harson with two books, pictorials of the Camp Upton hospital and rehabilitation program.

"For the first fifteen years, it was next to nothing, hardly a collection," explained Harson. However, Mallory was indirectly responsible for introducing Harson to the person he deemed "the most significant donor to the collection," Marian L. Pond.

In 1944, Mallory and a group of fellow officers at Camp Upton came up with the inscription "In Memory of the Departed Mice Who Became Men" for a small stone marker, which was placed flush in the ground in front of the flagpole of what was then the Officers' Club and is now the Brookhaven Center. In the 1950's, the flagstone was removed to the front of Police Headquarters, grass grew over the marker and it was forgotten.

About 30 years after it was carved, Pond and Raymond Burns, who were then adjutant and commander of the Veterans of World War I, Patchogue Barracks No. 2981, heard of the monument and of WWI training trenches being unearthed during construction. They made inspections of their former cantonment in March and October 1979 and met Harson.

"They had taken umbrage at being called mice," recalled Harson, and at the fact that nothing on site commemorated the existence of Camp Upton and its role in both world wars. The WWI veterans were pleased when the marker was returned to the flag pole and a bronze plaque, reading "In Memory of Camp Upton and Those Who Did Not Return," was dedicated on Memorial Day 1981.

"I was given the task of working with the vets, and I must say I enjoyed the job," said Harson. "Ours was an active relationship — they made sure of that by donating their own personal effects from the war and soliciting contributions of memorabilia from other veterans."

As one of their first tokens of appreciate for Harson's sincere interest, Pond presented him with a front page of the April 3, 1917, final edition of The Chicago Daily Tribune announcing "U.S. AT WAR: WILSON."

That tear sheet is displayed during a narrated slide show, entitled "Basic Training, Basic Research," which Harson had assembled for an after-dinner presentation to a Department of Energy conference held at the Lab in October 1980. The original front page and the "Liberty Theater" slide show can now be seen in the Camp Upton Museum. The wishes of both the veterans and Harson to find a permanent home for the Camp Upton historical collection were fulfilled when the Museum opened to the public, in July 1981. Harson thanked Alan Schmidtchen and Bobbie Samaritter, Photography & Graphic Arts, for designing many of the museum displays in their spare time.

Before the Camp Upton Museum opened in July 1981, Lou Harson checked every detail of the exhibits. Here he is seen with Janet Tempel, who heads Public Relations' Tour Program, outfitting a mannequin in a World War I uniform.

Between meeting the WWI veterans and the opening of the Museum, Harson had dug into the history of the cantonment. "I checked out every Federal, state and local organization that possibly held anything about Camp Upton," Harson said. "There is much more historical material about World War I because the troops were part of a fighting unit and they were stationed here for the duration of their training."

In his spare time and on vacations, Harson wrote to and researched at the headquarters of the 77th Division, Fort Jackson, S.C.; the U.S. Military Academy, West Point, N.Y.; the National Archives and Library of Congress, Washington, D.C.; and others. A tip from someone at the Suffolk County Historical Society Museum Library, Riverhead, led him to Carl Vail Sr. of Riverhead, another WWI veteran and great source of information.

"I'm a nosey guy," admitted Harson, "but you learn by keeping your ears and eyes open." Harson was sought out by BNL employees who found artifacts around the site, such as the jawbone of a mule used during WWI, found by Bill Fleischer, Plant Engineering. Adds Harson, "I became a repository for everything of the slightest historical significance, and I get all the mail to the Upton village historian — it gets forwarded to me as if I were Santa Claus."

Most of the Camp Upton historical collection he amassed is not on display, but on file in the office of Plant Engineering's Facilities Planning Group, which Harson headed. Harson organized his information in file folders and notebooks, "which Mary Durham tries to keep in some semblance of order for me," added Harson.

"Camp Upton is part of the history of the Laboratory — it ties us to the history of our nation and our community. If we are a great institution, then our history as Camp Upton is of value to us and it is important to preserve it," Harson concluded.

— Marsha Belford

Visitor

(Cont'd)

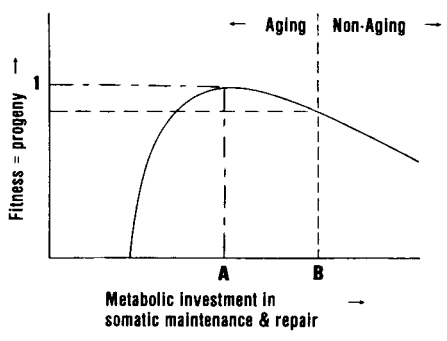
ward to an unforeseen future.

According to Kirkwood, the question of aging should have two parts: First, how has it come to be that the somatic tissue is mortal? And second, how do the reproductive cells avoid aging?

Kirkwood's Disposable Soma Theory (DST) is so named because an individual organism's body, or soma, is not necessary for the continuation of the species. "An organism's body is merely a disposable vehicle for the immortal genes of that species," Kirkwood summarizes.

He explains, "Mortality is unavoidable because no species can ever be immune to accidental death of its individual organisms. Even if there is a species whose individuals have the potential to live forever, there is an upper limit to life, aging aside, given that disease, accidents and predation cause death. Therefore, the body is not designed to last forever."

Within the body of each organism, there is a metabolic trade-off between the energy invested in maintenance and repair of bodily damage and the energy invested in reproduction. Through his mathematical analysis and computer modeling of life histories of different species, Kirkwood has found that the best investment of resources in somatic maintenance and repair is always less than what is required for the body to survive indefinitely (see figure).



The relationship between fitness, as measured by the number of progeny, and the metabolic investment in somatic maintenance and repair. Thomas Kirkwood's Disposable Soma Theory predicts that the best level of repair (A) to maximize a species' fitness (1) is less than the minimum investment in maintenance and repair (B) required to make the body of an individual organism immortal.

"This balance of metabolic investment has an advantage," explains Kirkwood. "A species loses nothing by having a mortal soma, but it gains by being able to invest more in reproduction. The ultimate success of a species is its ability to compete under natural selection, which is judged by the reproductive success of individuals over their lifetimes. While aging is a disadvantage for the individual, it is balanced against the advantage of increased reproductive success."

The implication of Kirkwood's theory is that aging is due to the accumulation of unrepaired flaws in the body that eventually leads to a "natural" death. "Our bodies are not programmed to age," explains Kirkwood. "It is not that they cease functioning at a specific age: It is that defects add up and eventually the sum becomes lethal."

Aging happens at a slow enough pace to cause death at an age after which most individuals would have died from accidental causes. DST supposes that through different evolutionary adaptations, such as becoming smarter or colonizing more secure ecological niches, species acquired the ability to reduce their rates of accidental death. Being safer, individual organisms gained the ability to live longer natural lives. So it became worthwhile for a species to invest more in maintenance and repair of its individual members, even if that meant reducing the investment in reproduction.

According to DST, by raising the investment in maintenance and repair, reproduction at a slower rate but over a longer time span evolved in long-lived species. Kirkwood has correlated his theory with the lifespans, and reproductive cycles and rates of long- and short-lived species.

"This theory not only explains this correlation, but it also predicts a mechanism by which this change may have come about — that rates of maintenance and repair at the molecular, cellular, tissue, organic and somatic levels should correlate with the lifespan of a species. This is something we could test in the laboratory to see if this is how aging came about in animals," says Kirkwood.

An important set of data that fits Kirkwood's DST was published in 1974 by BNL Associate Director for Life Sciences Richard Setlow and Ronald Hart, a former BNL research collaborator. They found a correlation between the potential longevities of seven different mammals and their ability to repair damage to their DNA.

Kirkwood would like to see more such comparative studies. "We might find that some systems of maintenance and repair correlate strongly with lifespan, and we might infer from these results that those systems are the most important in determining how long a species lives. Kirkwood's theory predicts that these studies will find that aging is a generalized process of deterioration, that no one system is going to fail and be the primary cause of deterioration because natural selection would have improved that one system.

"There is no fountain of youth," reports Kirkwood. "There is no single process that we can correct to stop aging. But, by adopting the systematic, comparative approach to studying aging, the Disposable Soma Theory suggests we can uncover the important aging processes." — M.B.

Coming Up

Biochemist Walter Mangel, Biology Department, will give the next Brookhaven Lecture on Wednesday, November 19, at 4:30 p.m. in Berkner Hall. He will speak about "The Role of Destructive Enzymes in Heart Attack and Cancer."

Defensive Driving

There are still a few openings for the National Safety Council's Defensive Driving Course (DDC), to be held on site on Saturday, November 15. A certified instructor will present the DDC in Room B, Berkner Hall, from 9 a.m. to 3 p.m. (includes lunch break). The course fee is $35 for each attendee.

The program is being organized by Frank Marotta, Safety & Environmental Protection Division, who explained that the DDC can help New York drivers by lowering their motor vehicle liability insurance premiums for three years, by automatically deducting three points from the total on the driving record of a driver who has incurred violations during the 18-month period prior to taking the DDC, and by sharpening driving skills.

To sign up for the DDC, send a check for $35, made out to "All-Suffolk Auto School," to Frank Marotta, Bldg. 535A. For more information, call him on Ext. 4273.

Arrivals & Departures

Arrivals

Eileen Carneiro ..... Staff Serv.
Rudolph M. Damm ..... Accel. Dev.
Joan M. Frye ..... Chemistry
Sven-Johan V. Heselius ... Chemistry
Zheng Li ..... Instrum.
James J.F. McAndrew ..... Chemistry
Norman K. Nilsson ..... Plant Eng.

Departures

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

Jerome A.G. Russell ..... Chemistry
John H. Cusack ..... Nuc. Energy
Gyozo Garab ..... Biology
Michael F. Degen ..... Nuc. Energy
Neelima Varma ..... Saf. & Env. Prot.

Patent Awarded

Terje Skotheim, Department of Applied Science, was issued U.S. Patent #4,585,581 for developing polymer blends to be used in photoelectrochemical cells for conversion of solar energy to electricity. In particular, his invention is designed to achieve better charge transfer across the conductive film/polymer electrolyte interface of the electrochemical photovoltaic cell.

Two of the classical goals of any photovoltaic cell are efficiency and higher output voltage. Most prior cells have a theoretical efficiency of 25%. The cells of the present application approach 35%.

Further, some prior art cells require that they be oriented so that the incident light is perpendicular to the face of the cell. In the present invention, while this is desirable, it is not essential, and the cells will operate at an angle from the perpendicular.

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ANITA COHEN, Editor
MARSHA BELFORD, Senior Reporter
LIZ SEUBERT, Reporter

35 BROOKHAVEN AVE., UPTON, N.Y. 11973
Telephone (516)282-2345

Give to the Kids

As you plan for the holidays, don't forget the "1986 Interface Toys-for-Kids Drive," which will begin on Monday, November 17, and continue until Friday, December 5. This drive is an annual project organized by the Town of Brookhaven to provide happy holidays for needy young people in our local communities. For the past two years, Lab employees have given their time and contributions with willing and generous spirits. Let's do it again for year number three!

Please drop off all donations at the BERA Sales Office between 9 a.m. and 2 p.m., Monday through Friday. Although new toys and gifts are preferred, those that are slightly used but in good and clean condition will also be appreciated. Gifts for pre-teenagers and teenagers, as well as tiny tots, are being requested. Items such as wallets, key rings, brightly colored scarves and belts, costume jewelry, books and games would be appropriate.

As the drive progresses, assistance may be needed during some noon hours. If anyone would like to volunteer, call Blanche Laskee, Ext. 2873.

WIS Meeting

At the next luncheon meeting of Brookhaven Women in Science, Medical Associate Rita Straub will speak on "The Whys and Wherefores of Cell Labeling." As a member of the Medical Department's Radionuclide & Radiopharmaceutical Research group, she has been studying the labeling of red blood cells with technetium-99m. At present, she is developing methods for labeling white blood cells by a similar technique. The meeting is on Thursday, November 13, noon-1 p.m., in Room A, Berkner Hall, and all are invited. Please bring your own lunch.

Swim Club

The Swim Club will practice on Thursday, November 13, at 5:15 p.m. at the BNL pool. All those who can swim two laps without stopping using the crawl stroke are invited to attend. For more information, call Marsha Belford, Ext. 5053, or Peter Heotis, Ext. 2304.

Nursery School Invites Teacher Applications

The Upton Nursery School is accepting applications for possible teaching positions. Send resume to P.O. Box 324, Upton, NY 11973. For information call Dottie Alessi, 924-5984.

Volleyball

Week of October 27

League I	
Dinkers	3-0
Up-fa-grabs	3-0
Bumpers	2-1
Net Results	1-2
Phoubars	0-3
X-rayted	0-3
League II	
Fossils	3-0
Nuts & Bolts	3-0
TNT	3-0
Cannonballs	0-3
Chunga's Revenge	0-3
Misfits	0-3
Upton Ups	0-0
League III	
Floaters	6-0
Screwballs	3-0
Foul Ups	3-3
Printouts	2-4
Odd Couples	2-4
Not Yets	2-4
Sorcerers	0-3
Open League	
Dakota	6-0
Phoenix	6-0
Court Jesters	3-3
Odds & Sods	3-3
Target	3-3
Rowdy Radicals	3-3
Duituits	0-6
Out of Control	0-6

United Way Has Grown on Them

Mort Rosen

Their beards are growing, and the United Way fund is growing too — topping $35,000 at present. Looking forward to the day the donations reach this year's goal of $75,000 are (bottom, from left) John Blydenburgh, Juan Alvarez, Eddie Rosado and (top, from left) Jim Amandola, Lou Di Carlo and Harold Bolling, all of the Safety & Materiel Division and all of whom have vowed not to shave till the goal is met. And if you're not moved by their growing evidence of support for United Way, "There's a new reason to send donations in quickly," said Di Carlo, who heads this year's drive. "We're taking all the cards that are sent in, and randomly selecting one a week. The owner of that card will get $50 towards dinner for two. The sooner you send in the card with your contribution, the more chance you have to win $50 some week. And it all helps United Way."

Cooking Exchange

An American Thanksgiving will be the theme of the next meeting of the Cooking Exchange, on Wednesday, November 12. Recipes for roast turkey with stuffing, pumpkin soup, cranberry Cumberland sauce, glazed onions and spicy pumpkin pie will be demonstrated and sampled.

The meeting will be held in the Recreation Bldg. between 12:30 and 2:30 p.m. As at every meeting, there is a $1.50 charge, and babysitting is provided at 50¢ per child.

For further information call Tina Grill-Sferlazzo, 286-9420.

Social Club

The dates for our three ski trips have finally been decided as follows: January 16-18, The Poconos — Montage, Jack Frost and Elk; February 20-22, Magic Mountain, Vermont; March 13-15, Kelly's Irish Alps, Brodie, Massachusetts. For details, call Doris Terry, Ext. 2228.

Basketball

Anyone interested in playing basketball Thursday evenings in the BNL Basketball League may sign up on sheets posted in the gym. Last year's players should contact their team captains for more information about league play. Any new players will be entered into a players' pool and assigned to a team based on team needs. League play should start sometime in December and continue through April. Pick-up games will start in November. For more information, contact Gerry Shepherd, Ext. 4484, pager 900, Bldg. 801.

Bowling

Pink League

Sandy Asselta bowled a 208, Mary Grace Meier 183.

Red/Green League

D. Jesaitis rolled a 232, N. Combatti 224, R. Adams 220, S. Dimaiuta 208.

White League

High games were bowled by Ed Sperry IV 226, Ed Meier 218/212, Ken Riker 222, Vito Manzella 201, Pat Manzella 196, Donna Riendeau 192.

Purple League

Rich Larsen rolled a 204, Lee Barberich 186, Pat Oster 180.

Cafeteria Menu

Week of November 10

Monday, November 10		
French onion soup	(cup)	.70
	(bowl)	.90
Veal Parmesan w/1 veg.		2.65
Pepper steak over confetti rice		2.60
Hot vegetable plate (lite-weight)		2.25
Hot Deli: Roast beef	(bread)	2.45
	(roll)	2.60
Tuesday, November 11		
Veterans Day		
Snack Bar Service		
9 a.m.-2 p.m.		
Wednesday, November 12		
Potato bacon chowder	(cup)	.70
	(bowl)	.90
Beef stew w/biscuit		2.60
Chicken kabob teriyaki over rice		2.65
Spinach soufflé w/1 steamed veg. (lite-weight)		2.60
Hot Deli: French dip		2.45
Thursday, November 13		
Tomato beef soup	(cup)	.70
	(bowl)	.90
Texas BBQ beef w/1 veg.		2.60
Salisbury steak w/1 veg.		2.55
Fruit & yogurt plate (lite-weight)		2.25
Hot Deli: Boneless pork rib		2.50
Friday, November 14		
Seafood gumbo	(cup)	.70
	(bowl)	.90
Broiled fish w/1 veg. (lite-weight)		2.80
Sweet & sour chicken over rice		2.60
Hot Deli: Fried clam boat		2.45

JOIN THE GREAT AMERICAN SMOKEOUT
NOV. 20
10TH ANNIVERSARY
AMERICAN CANCER SOCIETY®

Classified Advertisements

Autos & Auto Supplies

84 MAZDA GLC4 - htchbk, 5 spd., 24k mi., new muffler, $3,500. Harada, Ext. 3714.

80 DATSUN 200SX - a/c, 5 spd., htchbk, sunroof, 76k mi., am/fm, p/s, p/b, runs well, $2,800, neg. 654-0830.

81 DODGE ARIES - wagon, 4 cyl., am/fm, cb, a/c, good cond., $3,800. 654-1146 after 5 p.m.

78 SUBARU FE - 2 dr., stand. trans., runs well, $1,100. Paul, Ext. 2961 or 751-5593, eves.

82 CHEVY S-10 - pickup, V6, 4 spd., cap, sunroof, extras, low mi., excel., $4,000. Walter, 878-8967 after 4 p.m.

79 JEEP CHEROKEE - good cond., a/c, a/t, p/s, p/b, trailer package, $3,700. 475-4792 after 5 p.m.

PICKUP/CAMPER - 77 Dodge, D-200, sleeps 4, self contained Sun Fun, 9', $4k. 286-9659.

83 ESCORT - must sell, a/t, p/s, a/c, good cond., $2,700. Neil, Ext. 2023.

83 Z28 - 5 spd., 305 ci., t-tops, a/c, p/w, p/hatch, p/antenna, am/fm cass., cruise, 57k mi., $9,200. Vin, 588-1509, eves.

SNOW TIRES - 2 Armstrong radial, used ½ season, FR78-14, $35. Anthony, Ext. 7904.

74 BMW - 2002, good cond., Ext. 7110 or 751-7963.

79 OLDSMOBILE - Delta 88, clean, dependable, high mi., $1,000. Ext. 3147 or 924-1038.

76 OLDMOBILE STARFIRE - black, 2 dr., 4 cyl., good running cond., rebuilt engine, asking $500. 546-4472 or 758-5287.

78 COUGAR XR-7 - 351, excel. cond., blue, am/fm cass., new tires, $2,800. Bert, Ext. 2050.

TIRES - (2) CR78-14 snows, $15 ea.; (1) LR78-15, studded snow, $20. Ext. 4597 or 924-8213.

85 VOLKSWAGON GOLF - mint cond., 19k mi., 5 spd., diesel, a/c, am/fm cass., blue, $6,450 or make offer. Ext. 5400 or 924-4074.

70 TOYOTA CORONA - a/t, a/c, very good body; tires and rims (4) 175-13 radials on brushed alum. 4-lug rims; Holley 4-bbl carb. and manifold for Buick V6, make offers. 395-3456.

77 MONARCH - good cond., mag wheels, needs engine work, $700; 76 Toyota Corolla, a/t, 4 cyl., new brakes, runs well, $400. 475-2482.

78 HONDA CIVIC - 4 spd., good mpg, $700. Sherie, Ext. 4478.

81 MERCURY CAPRI - 3 dr., 5 spd., sunroof, stereo-cass., extras, clean, $3,200. Ext. 4100.

79 DODGE OMNI - many new parts, dependable, needs tune-up, wheel bearing. Diana, Ext. 5226.

75 PONTIAC - a/t, p/s, p/b, perfect cond. Ext. 3357 or 718-271-8583 after 6 p.m.

HONDA C-70 - Passport motorcycle, excel. cond., less than 175 mi., asking $500. (212) 986-7234, eves.

84 HONDA XR350R - dirtbike, excel. cond., many extras; 84 Suzuki RM250, dirtbike, excel. cond., many extras. 878-6074.

77 LINCOLN VERSAILLES - excel. cond., 59k mi., well maintained, must sell, $2,999 or best offer. Lee, Ext. 3850.

75 CHEVY NOVA - 350 V8 engine, a/t, body damage; 76 Dodge wagon, stand. trans., good extra car., $500 or best offer. Dorry, Ext. 2103 or 286-0031 eves.

79 PONTIAC WAGON - a/t, a/c, am/fm stereo, tape, excel. body, good running cond., $2,200. 473-3070.

82 BUICK SKYLARK - 2 dr., a/c, 24k mi., excel cond., 286-2749 after 5 p.m.

80 CORVETTE - a/t, t-tops, a/c, p/w, p/l, cruise, am/fm cass., int. wipers, 40k mi., $12,500. Vin, 588-1509, eves.

80 VW RABBIT - diesel, 4 dr., 93k mi., 45 mpg, am/fm, a/c, clean, $1,650; snow tire, Dunlop, st/b radial, P215/75R14, $20; rims. Ext. 4782.

82 FORD EXP - $12,000. 567-6226, eves.

SNOW TIRES - (2) white walls w/rims 78x15, Goodrich radials, steel belted, $50. 589-2681.

TIRES - (2) 15" Firestone 721 radials, very good cond., $20; pickup running board, $75; Reese load distributor trailer hitch for 2" receiver, $135. Artie, Ext. 4987 or 325-0743.

TIRES - G-78-14, almost new, $25 ea. Ext. 4597.

85 TRANS AM - htch roof, a/c, p/w, p/l, a/t, w/overdrive, am/fm tape, tilt wheel, 48/50,000 warr., 7,500 mi., mint, $11,500. John, Ext. 2836 or 929-4450.

83 SUBARU - 4WD, s/w, a/c, p/s, p/w, am/fm cass., 4 spd., excel. cond., 65k mi., $6,490. Henry, Ext. 4547 or 727-7227.

81 CHEVY - 4 dr., 4 cyl., am/fm, a/c, good cond., $500; 82 Dodge Aries, wagon, 4 cyl., am/fm, cb, trailer hitch, good cond., $3,800. 654-1146 after 5 p.m.

71 CHEVY PICKUP - 350 V8, 3 spd., $1,000 or trade for quad-runner; 8' cap for pickup, insulated, needs minor repair, $100. Joe Bush, Ext. 4638, beeper 572.

85 MITSUBISHI - Mirage, red, turbo, 5 spd., am/fm cass., extended warranty, like new, extras, $6,500. 286-3679.

82 PLYMOUTH SCAMP - orig. owner, good for local transp., need work, best offer. Ext. 4132 or 924-4328.

83 PLYMOUTH RELIANT - clean, very good cond., 2.2 eng., 33 mpg. Bob Kiss, Ext. 4428 or 467-4222.

79 PONTIAC SUNBIRD - 4 spd., 4 cyl., many new parts, new paint, sunroof, tilt wheel, asking $800. Bob Jr., 689-9234, eves.

76 PONTIAC VENTURA - runs excel., $450. Joe, Ext. 4661 or 878-2203 after 6 p.m.

76 MUSTANG - 2 dr. sedan, still runs, can be seen locally, $400. (718) 847-1079.

AUTO LUGGAGE - carrier, Sears, used once, $500. Barbara, cafeteria, Ext. 3541.

78 FORD VAN - p/s, p/b, 6 cyl., std. trans., overdrive, capt. chairs, bench bed, 97k mi., paneled, $2,000. Hichborn, 929-4133.

84 DODGE - 600SE, 4 dr., orig. owner, 40k mi., excel. cond., fully loaded, asking $6,500. 924-3236.

REAR STEP BUMPER - for GM truck, new, $85; front bumper, 73 to 81 GM truck, excel., $40. Tony, Ext. 2462.

72 TOYOTA COROLLA - for parts, new clutch, runs, $200. Ron, Ext. 2141.

81 DATSUN 280ZX - loaded, t-tops, am/fm cass., new tires, a/t, 58k mi. Mike, 698-0152, leave mess.

66 FORD - Mustang, not running, $500. 399-0942.

74 CAMARO - 350, a/t, 66k mi., headers, rims, stereo, new tires, body excel., $2,000, neg. John, Ext. 2294.

83 NISSAN STANZA - 4 dr., 5 spd., 39k mi., extras, excel. cond., $4,800. 744-4611 after 6 p.m.

76 VOLVO - 245DL wagon, 79k mi., a/t, p/s, p/b, a/c, body/engine excel. cond., garaged, $2,750 or best offer. Ralph, Ext. 2368 or 928-6654.

78 T-BIRD - good cond., fully equipped, new tires. Mike, 475-8504.

74 YAMAHA - MX400B, dirtbike, just rebuilt, runs, excel., many extras, asking $250. Ext. 4986.

79 HONDA - Hawk, new rear tire, new chain, more extras. Ext. 4986 or 435-4316 after 6 p.m.

73 FORD RANCHWAGON - full-size, seats 8, depend. transp., new 5 yr. battery, $300. Jack, Ext. 4447 or 744-3919, eves.

76 JEEP - J-10, 4 WD, 69k mi. Ext. 2320 or 475-9083 after 5 p.m.

80 OLDSMOBILE - Toronado, red, V8, diesel, all pwr, orig. owner, $2,800 neg. Ext. 3794.

74 VOLKSWAGEN BEETLE - good cond., $800. John, Ext. 2667.

85 RENAULT ENCORE - am/fm, new tire, tune up, 40+ mpg, excel. cond., Ed, Ext 3293 or 477-2880.

75 FORD ELITE - a/c, a/t, p/b, p/s, am/fm, new trans., reliable transp., $500. Ext. 7901 or 821-9328.

PICKUP/CAMPER - package, 70 Dodge, D-100; 8' slide-on camper, gas stove/heat; truck depend., camper clean, $900 neg. Bob, Ext. 3145.

78 OLDSMOBILE - Delta Royale, 4 dr., p/s, p/b, p/w, am/fm stereo, $1,250; 83 Buick Skyhawk, blue, 2 dr., 4 cyl., am/fm stereo, mint cond., $4,800. 732-2341 after 6 p.m.

72 VOLVO - wagon, $500. Peter, Ext. 4838 or 473-3217, eves.

74 LINCOLN CONTINENTAL - loaded, new brakes, exhaust, clean in & out, $1,800. 751-6303 after 6 p.m.

75 CHEVY MONZA - 77k, 4 spd., 2 dr., needs muffler, $485. Ext. 3164 or 744-5954.

RIMS - (4) Chevette, with 8 13" tires, all for $80. Steve, Ext. 2314 or 929-6877.

71 BUICK LeSABRE - a/t, p/s, p/b, a/c, good for short trips. 584-7750 after 6 p.m.

78 DATSUN - sta. wagon, a/c, good running cond., 4 spd., $900 neg. Lew, Ext. 5193 or 928-4863.

67 CHRYSLER - convertible, 383 V8, a/t, p/w, p/s, p/b, new top, new radio/cass. Tony, 698-9274.

65 JEEP - pickup, 350 ci Chevy engine. Bob Kiss, Ext. 4428 or 467-4222.

79 TOYOTA COROLLA - 2 dr., 5 spd., runs well, $700 or best offer. 472-1735.

Miscellaneous

UNICEF XMAS CARDS - & gifts, info & order. Ann, Ext. 2022 or 744-8386.

24" ELECTRIC RANGE - Welbuilt; Sear's Lady Kenmore dishwasher; stained glass hanging light, best offer. 289-1439, eves.

BICYCLE - 10 spd., 27" frame, alloy rims, new tires, excel. cond., $95. Al, Ext. 7588.

SOFA BED - Q-size, $50; upholstered lounge chair, $25; 6-drawer dresser w/mirror. Ron, Ext. 7533 or 286-0353.

WEIGHT BENCH - professional, custom, welded steel, 3-position incline, curl station, dip station & squat station. 878-2233.

FREEZER - G.E., upright; carpet cleaner, power spray; 8" bench saw; 42" ranch hood, new. 924-6582.

STORM WINDOWS - 3 track, 32x39. Steve Kiss, Ext. 2674.

BOW - with arrows, 50 lb., Browning, $50. Artie, Ext. 4987.

25" TV - Heath, Bell & Howell, (2 sets), w/manuals and testers, needs tuning, $150. Ext. 4100.

Q-BEDROOM SET - Ethan Allen, maple, head/foot boards, triple dresser, armoire, new cond., make offer; Living room set, brown/earthtones, good cond., $400. Henry, Ext. 4547 or 727-7227.

FISH TANK - & stand, 70 gal., SS, lights, filter, gravel, rocks, all $50; windsocks, ducks, geese, & seagulls, $9.99 ea; gas dryer, Norge, good working cond., $25. 727-4859.

BICYCLE - 2 child's BMX Schwinn; 2 folding bed frames; trestle table, w/6 chairs, 2 leaves, formica top, pine, Gary, Ext. 2350 or 567-9617 after 5 p.m.

VACUUM CLEANER - Sears, good cond., $20. 751-3551.

CABINET - oak, custom, made for carousel projector and 24 slide tray, $30. Ernie, Ext. 2957 or 281-7873.

PHOTOS - Cunard Liners, Queen Mary, E-1, Caronia Britannia, Media, etc., best offer. 286-9659.

FIREMAN'S BLUE LIGHT - magnetic mount, plugs into cig. lighter, $25. Joe, Ext. 2898.

KEROSENE HEATER - self ignition, w/5 gal. can & pump, $45; electric chain saw, and extention lead, $15; Ext. 2826 or 928-8579.

HEADBOARDS - (2), maple, single bed, $30. Tony, Ext. 2050.

VCR - Beta, Toshiba, port. & color camera, excel. cond., $650; Sanyo cass. tape deck, like new, dolby, metal tape, etc., $50. 727-4859.

LOVE SEAT - convertible, needs cover, $40; stereo w/separate speakers, am/fm, $30. 929-8287.

GENERATOR - 2.2 kW, 8 hp engine, heavy base, new engine, $300, firm. Sanchez, Ext. 3848 or 281-6498.

SLIDING GLASS DOORS - two panels, 6½'x6', $150. 878-2849 after 4 p.m.

FIREWOOD - split, seasoned oak, 4'x16'x20-22" pieces, delivered, $105. 732-2849.

FURNITURE - sofa, $50; swivel rocker, $30; china cabinet, $60; formica table, $10. 744-9822.

VIOLIN - full-sized, about $500. Peter, Ext. 7687 or 744-1112.

BICYCLES - woman's Schwinn, 3 spd., excel. $60; Columbia, 1 spd., $30; love seat, $70. Ext. 3699.

COMFORTERS - king, queen size, solid, mixed colors, $39 ea. J. Medina, Ext. 7636 or 654-3472.

TAPE RECORDER - portable reel to reel; reel to reel tapes, 7", some new, most used, best offer for all. Tony, Ext. 4024.

ELEVATED CHAIR - for steps, good for handicap or invalid, Wecolator, excel. cond., $550. Frank, 277-0464.

SOFA - ivory leather-like, 83½" long, good cond., $100. 543-8576.

STEREO - Emerson, am/fm receiver, turntable w/speakers; chest and double dresser, like new. Ext. 7629.

3M DISKETTES - 5¼" ds/dd, new $10/10. Jim, Ext 3372.

CAPTAIN'S BED - full-size mattress & box spring, excel. cond., $100 or best offer. Roger, Ext. 3578 or 395-1969.

PHOTO ALBUMS - padded, 8"x10" pages, lace eyelet trim, ideal holiday gifts, $25-$30. Linda, Ext. 744-0722.

BDRM. SET - Basset, teenage, 5 pcs., good cond., $300. Ext. 2957.

ELECTRONIC TEST - equipment, tube tester, generator, etc., vintage receiving tubes. 543-1784.

GAS STOVE - Caloric, 4 burner, oven/broiler, apt. size, 20" wide, white, excel. cond. Ext. 2384 or 878-0074.

VACUUM CLEANER - Eureka canister, $10; portable typewriter, $20; black & white portable TV, $25. 878-6637.

RANGETOP - Hotpoint, 4 burners, 20"x20½", $15; birch box cabinet for rangetop, $15. Jack, Ext. 4447 or 744-3919, eves.

KITCHEN SET - 5 pc. Colonial, $250. Ralph, Ext. 3082 or Laura, 654-3358.

SOFA BED - Q-size, 4 pc., bdrm. set, 66"x44"x18" metal wardrobe, all excel. cond., best offer. Ext. 2683 or 751-2469, eves. & wknds.

LIVING ROOM SET - Colonial, sofa, loveseat, 2 bookcases, end tables, 2 lamps, asking $350. 924-6474.

GUITAR - 58 Fender Jazzmaster, white, rosewood neck, just refretted w/case, $500. Dave, Ext. 4256.

AIRLINE TICKETS - (2) bonus, United, good anywhere cont. U.S., $550. Vin, Ext. 2575.

POLE PLANTER - for hanging plants, w/2 shelves, $4; flashlights, $1 ea. Joe, Ext. 2898.

ESPRESSO MACHINE - $15; Salton cappucino machine, $30; Clairol footbath, $10. Muller, 878-0357.

CRESCENT SOFA - 90", $60; Electrolux floor washer, waxer, $50. Paul, Ext. 4156.

ELECTRIC RANGE - & hood, almond, good cond., you pick up, $100. Fred, 744-2655.

CANARIES - males, females or buy pairs, glouster, red factors, color bred. Ramona, 928-3088.

MEN'S SKIS - 205 cm, 200 cm, boots size 10 med., women's ski's, Harts, 185 cm, boots size 7 & 8. 475-0509.

SOFA - $50; china cabinet, $50; rocker, $30; lawn mower w/bag, like new, $65. Sal, Ext. 2460 or 744-9822.

WATER TANK - 50 gal., Champion, 100 psi, max. water pressure; above ground water pump w/filter and 1 house power F-W motor. 395-1651 after 6 p.m.

SCROLL SAW - Old Craftsman, great cond., $75. Joe, Ext. 929-8321.

QUASAR CONSOLE - 25" Color TV, like new, $400; 3 pc. sectional w/chair & 3 tables, $100. Ext. 2314 or 567-5131.

FM TUNER - Heathkit, AJ15, $40; phone cartridges grado, F3E, $12; shure, V15TYPE III, $10. 929-4326.

MOVIE CAMERA - super 8 mm. and movie editor, regular 8 mm, best offer. Mark, Ext. 5350.

CHINA CLOSET - 5' walnut Contemp., top, 4 glass panels, bottom, 2 doors, 3 drawers, excel. cond., $200. Ext. 2529.

INFANT CAR SEAT - $15; baby walker/chair, $8; 3T girls' velvet dress, $10; 18 mos. boys' velvet suit, $8, excel. Ext. 5046.

ROTOTILLER - used, good cond. Gene, Ext. 5614.

Boats & Marine Supplies

NYLON ROPE - 200', ¾" double braided, almost new, $115. Artie, Ext. 4987.

Car Pools

NASSAU - van pool, need three additional passengers. Roger, Ext. 5292.

MASTIC - need ride to/from Lab, 8:30-5 p.m. shift, will pay. Jody, Ext. 2907 or 395-3963 after 6 p.m.

HUNTINGTON - Greenlawn, driver needed. Jim, Ext. 5057.

Yard Sale

GARAGE SALE - Shoreham, Nov. 8, Cooper St., 1 block so. SWR middle school.

Free

CAT - male, gray tiger, very affectionate, will pay for shots, etc. Anne, Ext. 5055.

GOLDEN RETRIEVER - good home wanted, female, 5 yrs. old., spayed, loveable, "house dog," great w/children, housebroken. 286-1792.

16' FIBERGLASS BOAT - old, old, and trailer, tow it away, Bill S., Ext. 4434 or 399-6168, eves.

Real Estate

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

For Rent

RIDGE - 2 bdrm. apt, l/r, eik, full bath, avail. 11/15, $625 inc. heat & elec. 924-5541.

QUOGUE/FLANDERS - just built, 3 bdrm., 2½ bath, study, spacious l/r, d/r, f/r, eik, fp, w/w, deck, acre, near ocean and BNL, long or short lease. Ext. 4112 or 727-1782.

BROOKHAVEN HAMLET - 2 bdrm., l/r, eik, full bsmnt, avail. immed. thru Aug. 31, 1987, $750 mo. inc. heat, elec., water. 286-9329 or 286-3737.

HAMPTON BAYS - waterfront, 2 bdrm. house, no pets, avail. Nov. 1 to May 30, 1987. 728-2104.

HOLBROOK - newly decorated, 4 bdrm. house, country kit., dishw., new stove, windows, Beckett burner, and HWH, 1½ baths, enclosed porch, closets galore, Sachem schools, $900 + util., by Nov. 15. Ext. 2529 or 588-7989, eves.

CATSKILLS - chalet, 3 bdrm. w/sleeping loft, fully furn., near Hunter & Windham Mts., great for hunting & skiing, will rent weekly or wknds. Kay or Judy, Ext. 3595 or Bea, Ext. 3642.

SETAUKET - 3V schools, 3 bdrm., cont. Colonial, 2½ baths, huge, l/r, d/r, f/r, eik, 2 car garage, fenced-in ½ + acre, solar hw. Ext. 4157 or 698-6103, eves.

MIDDLE ISLAND - 1 bdrm. apt., eik, l/r, d/r, cac/heat, inc. dishw., w/d, pvt. ent., recreational facility, $675 mo. Rich, 742-2674.

SETAUKET - furn. studio apt., w/full bath, cable tv, util. inc., walk to beach, charming neighborhood, $460, single prof. only. 751-0453.

HILTON HEAD, S.C. - 2 bdrm. condo, many extras, tennis, golf, beach, sleeps six, $300 week. 585-9149.

For Sale

SHOREHAM NORTH - 4 bdrm. condo, 2½ baths, den/fp, bsmt., fenced, patio, formal d/r. 744-1750.

HAMPTON BAYS - legal 2 family house, $155,000. 728-2104.

POCONOS - chalet, 3 bdrm., l/r, d/r, f/r, kit. w/wood burning stove, w/w, garage w/elec. door opener, circular drive., Poconos Country Place, paved roads, pools, lake, clubhouse, tennis, all entrances are security guarded 24 hrs., and much more, $115,000 neg. 286-4652

ROCKY POINT - extended 3 bdrm. ranch on park-like property, solar f/r, l/r w/wood stove, Andersen windows, oak floors, full bsmt., deck, town water. 744-7708.

NORTH HAVEN - Sag Harbor, Colonial, 4 bdrms., 3½ baths, master suite w/jacuzzi, steam tub, lots of glass and skylites, laundry-mud room, 2 car garage, full basement, 2 acres. 725-9358 after 6 p.m

Wanted

DESK - slant top, secretary, Governor Winthrop style. Ext. 2824 or 727-3218.

17' CANOE - alum. or fiberglass. John, Ext. 7671.

RIMS - 15" Ford. Ext. 3783.

TELESCOPE - reflector approx. 300x for amateur astronomer, equitorial mount preferred. Richie, Ext. 2175 or 734-7342.

RIDE - to Washington, D.C. or Univ. or Maryland, will share expenses, any wknd. Bai, Ext. 4393 or 3002.

EXTENSION LADDER - alum. Ext. 2487 or 928-6930, eves.

HOME - caring only, for black/white kitten, female, 8 weeks old. Ext. 2959 or 928-2304.

HOUSEKEEPER - cleaning, laundry, ironing, occasional child care, M, W, Th. 9 a.m.-12, non-smoker. 744-4611 after 6 p.m.

WET SAW - w/carbide blade for use on ceramic tile. Tony, 585-0178 after 5 p.m.

ROOMMATE - share, 4 bdrm. house, lg. l/r, kit., den, fully furn, 1½ bath, walk to village of Port Jefferson, $350 inc. all. Ext. 4331 or 473-0809.

Services

Services are listed as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin.

BRICKWORK - patios, walks, Belgium block, landscape ties, pools. Tony, 698-9274.

HORSE BOARDING - lg. turnout area, near trails; Rototilling, small & med. size gardens, reasonable rates. Paul, 924-8143 after 4:30 p.m.

GENERAL CONTRACTOR - carpenter, extensions, dormers, garage conversion, basements, decks, kitchens, liscensed. Jim, 698-2501.

VIDEO TAPING - weddings, birthdays, special events, 8 mm, VHS or Beta, formats, reasonable rates. Chuck, 821-1525.

SPANISH LESSONS - translation to and from Spanish. Fernando, Ext. 5409 or 997-3905, eves.

TYPING - reasonable rates. Ext. 2484 or 758-6241 after 6 p.m.

PAINTING - exterior/interior, tiling ceramic, mosaic, linoleum, affordable prices, clean professional work, free estimates. Pat, 728-8935 after 6 p.m.

BABYSITTING - my home or yours, nice and educational cure. Ext. 3221.

LAND CLEARING - using excel. rake on JD 450 track loader; $55/hr. w/operator. Tom, Ext. 4084 or 878-1060.

MAGICIAN - children's parties, Lab. dis., sculptured balloons, book early. 395-3903 after 6 p.m.

JEWELRY REPAIR - gold & silver. Dan, Ext. 2319.

SEAMSTRESS - clothes made and altered, reasonable prices. Donna, Ext. 4430 or 369-2332 after 6 p.m.

PIANO LESSONS - from experienced, qualified teacher. Ext. 7107 or 282-3192 after 7 p.m.

FIRESIDE CHIMNEY SWEEPS - fireplaces, wood coal & oil flues, chimney caps, relining & repairs, Lab. discount. 821-9690.

MASSAGE - for relaxation and well being, women only, your home or mine. Cecile Muller, 878-0357.

In Appreciation

We wish to express our sincere appreciation for all your very kind expressions of sympathy at the loss of our beloved husband and father, Stanley Dobzeniecki. — Terry and Jane Dobzeniecki

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

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