BROOKHAVEN BULLETIN
Vol. 38 - No. 15 April 13, 1984
BROOKHAVEN NATIONAL LABORATORY

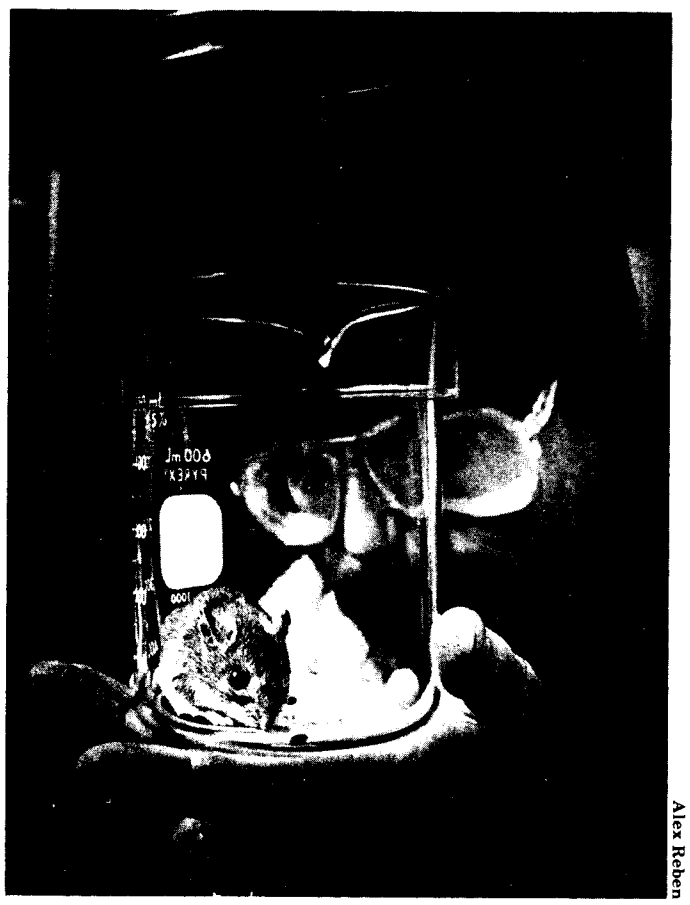
Of Mice and Men

What do white-footed mice and white-tailed deer have in common? *Ixodes dammini.* Commonly called deer ticks, *I. dammini* are parasitic arthropods that transmit the bacterium responsible for the inflammatory disorder Lyme disease, and the protozoan causing malaria-like Babesiosis from white-footed mice to white-tailed deer, and other vertebrates. Unfortunately, humans sometime enter this scene by wandering the woods, or walking across backyards during the warmer months of spring through fall when ticks are seeking a host upon which to feed. If bitten by infected deer ticks, people can become hosts to the parasitic diseases these ticks transmit during their blood meals.

"Both the white-tailed deer, and the white-footed mouse are important in the life cycle of the *I. dammini* tick," says Brian Ormiston, Medical, "and it is the *I. dammini* tick that carries the parasites causing Lyme disease and Babesiosis. The tick picks up the parasites from wild mice in the warm months, and transmits them to larger vertebrate animals, including humans, after infestation."

Most cases of both diseases in the U.S. are of rodent origin, and the most common rodent reservoir of the parasites causing those diseases is the white-footed mouse. Ormiston studied the distribution and movement of white-footed mice in woodlots at BNL for his Ph.D. dissertation research in ecology and evolution, completed in 1983 at the State University of New York at Stony Brook. He tracked the seasonal movement of the wild mice in and out of various types of forest habitats.

"White-footed mice are most abundant in damp woods during the warm months, where you are more likely to find arthropods including deer ticks," explains Ormiston. "This probably contributes to the white-footed mouse being the major host of the immature *I. dammini ticks.*"



The culprit: the white-footed mouse, once regarded as harmless, is now incriminated as a reservoir of Lyme disease and Babesiosis parasites. The captor: Brian Ormiston, Medical.

Alex Reben

Deer ticks can acquire either the Lyme disease spirochete, or the protozoan causing Babesiosis during their six-legged larval stage by taking a blood meal from an infected mouse. With its abdomen distended with blood, the larva drops off the wild mouse to molt. After it emerges as a nymph, now having four pairs of legs, the tick seeks a second meal of blood from another small rodent. Once this is digested, the tick becomes a sexually mature adult. An adult female tick requires a third blood meal, which she takes from one of the larger vertebrates, including deer, dogs and humans, in order to lay her 200 to 10,000 eggs.

Ormiston found that *I. dammini* infested the wild mice during the warm months when the mice ranged about the damp lowland forest. Eleven percent of the mice had the Lyme disease spirochete in their blood stream, and 93% of them carried larval deer ticks during August, the peak month of infestation. Seventy percent of those immature ticks were found to be infected with the Lyme disease spirochete.

In a 75 acre woodlot, south of the sewage treatment plant, Ormiston live-trapped, tagged and released small rodents. He captured about 400 wild mice, but only 34 other small rodents. "White-footed mice are the most abundant small rodents in the northeast U.S., and occupy a variety of habitats.

"The wild mice are not sitting in one spot in nature, they are moving around." In the summer, Ormiston found that the white-footed mice lived in a damp, lowland forest; in the winter, they moved to a dry, upland forest. "Since the mice move long distances after leaving the nest as juveniles, and while looking for food and mates as adults, they may help disperse *I. dammini* ticks over a large area," says Ormiston.

Working with Edward Bosler, medical entomologist at the New York State Department of Health, Ormiston examined "the major winter host of the adult deer tick, the white-tailed deer." On Long Island, each deer they examined had three male and three female adult deer ticks on it. Twenty to 40% of the deer were infected with the Lyme disease spirochete, and 25 to 78% of the ticks on the deer were infected with that parasite as well.

According to Ormiston, the reported number of human cases of Lyme disease is increasing annually. Of the 1,000 plus cases reported globally last year, the largest number, about 400, occurred in New York State with the majority of those happening in Suffolk and Westchester Counties.

Symptoms of Lyme disease, which was first clinically recognized in 1975, can include a migrating ring-shaped red skin rash, fever, muscle pain, and joint pain. The spiral-shaped bacteria causing Lyme disease, similar to the

(Continued on page 3)

Wrong Turn Down Memory Lane

Every Sunday, Martin Blume settles into his favorite chair, pulls The New York Times onto his lap and begins a pleasant browse through the paper. This past Sunday, when he turned to the Long Island section, his eye was caught by a 1940's picture of Army recruits at Camp Upton.

The accompanying story began pleasantly enough. Writer Fred McMorrow recounted a gray, cold day in February when he set out from the Yaphank post office, armed with directions from a helpful woman there, in search of the camp he had known as a recruit 40 years ago.

The first hint of somthing amiss was McMorrow's description of finding "barracks-like buildings with no windows." Two paragraphs later, the writer described a sign on the gate that read, "Warning: Do not try to enter. Attack-dogs on duty."

At that point, Blume was incredulous. He read on quickly.

The rest of the story was a reminiscence about life as a recruit. But at the very end, the writer snapped out of his reverie with: "I had one last, uneasy thought. In February 1944, this site was processing millions of men for what the future would call a conventional war. In February 1984, I was apparently the only human here. And this place was a link in a system that in a modern war might require only a button and a bomb."

After reading that, Blume was hopping mad. Brookhaven Lab does not do any weapons work.

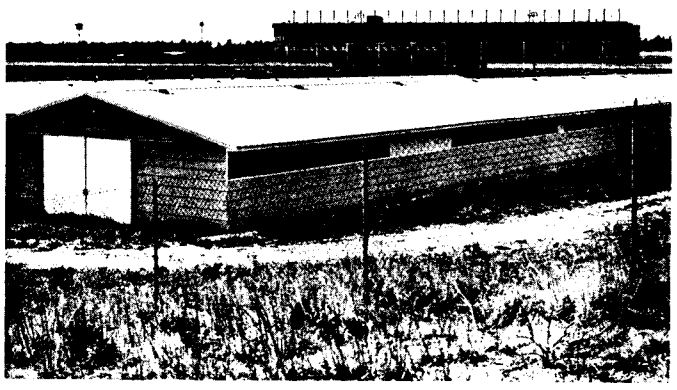
There were other employees who had the same reaction to the story. Earlier this week, they called Public Relations, asking how the story could have been written and what could be done about it.

First thing Monday morning, Associate Director Blume turned super sleuth. With the story and a Hagstrom in hand, he retraced the writer's path — all the way to the back gate of Parr Meadows racetrack!

Blume returned a second time with Public Relations Officer Anne Baittinger, who took Polaroids of the empty horse stables and the warning sign barring entry to the deserted grounds. Baittinger sent the pictures, along with a letter to the editor, to The New York Times.

Too bad Mr. McMorrow had not reached the real Brookhaven National Laboratory. He would have approved of the friendly, campus-like atmosphere. And he would have been pleased to see the old Army barracks spruced up and still holding their own among the newer structures on site.

The back gate at Parr Meadows. —photos by Reben



An empty horse stable. In the background, a deserted racetrack.

Employee Idea Nets Her $1,784

Joan Slavinsky's wastebaskets were particularly full on April 2. A few days later, her bank account was fuller too. And both fillups were the result of an idea Slavinsky submitted last year to the Employee Suggestion System (ESS).

The essence of Slavinsky's suggestion was to eliminate the Permanent Property Record Cards kept on file, in duplicate, by property representatives in each department, to control capital equipment. The card system was devised in a pre-computer age. But last year, all the property reps got access to AMD's System 2000 Capital Equipment Data Base which contains all the information printed on the cards — and more. Slavinsky, who is a property rep in the Department of Applied Science, felt that this could render the card system obsolete. If unnecessary card production, filing and updating were eliminated, she thought, the Laboratory might save some money.

She was right. Slavinsky's idea should realize a savings of $17,840 in the first year alone. At ten percent, that translated into an award of $1,784, which she received on April 6. "I was amazed," said a pleased Slavinsky, "I never thought it would amount to anything like this." So far, Slavinsky's award is the largest given by the ESS since its initiation in February 1983.

Slavinsky originally began inves-

(Continued on page 2)

On the Comeback Trail with Gus Prince

When Gus Prince, a physicist at DNE, recently won the 5 kilometer foot race for men 60 and over at the Nassau Coliseum, the Daily News hailed his comeback after last year's absence. Using the same determination he employs to run distance races, including marathons, Prince, the guru of running at BNL, is returning from injury to racing form. In the class of 55 to 59 year old men, Prince holds the 6th fastest time in the U.S. for 5 km, 4th for 5 miles, 17th for 10 km and 6th for 10 miles. However, Prince could not run his last year as a 55 to 59 year old because he was sidelined with a broken left kneecap.

On February 1, 1983, Prince fell as he came out of building 703 on his way to the research library. The BNL EMTs iced his knee, and transported him to the Occupational Medical Clinic where x-rays showed that Prince had broken his left kneecap in half. He was referred to an orthopedic surgeon specializing in knee surgery, and was admitted to Brookhaven Memorial Hospital.

"This was the first time I had been in the hospital since I was born," says Prince, "And I wasn't happy about being there." His kneecap was pinned and wired together during a two hour operation the day after his hospital admission. "I was in the hospital for a week, and I was losing conditioning fast. I felt like I was letting myself and the other runners down."

Three weeks after the accident, Prince was back at work in building 475 with a cast around his left leg, and crutches under his arms. A month after returning to work, the stitches across Prince's kneecap were removed.

Physical therapy began that April with a physical therapist who specializes in the rehabilitation of athletes. "When the cast came off, I felt like I should be able to bend my knee. But I couldn't bend it more than three to five degrees when I began physical therapy." Prince worked with him twice a week through August.

To retrain his left quadricep, the large muscle in front of the thigh which extends the leg from the knee, Prince used his physical therapist's quad board. This device is made of three boards arranged into a triangle, with the two top boards being hinged so that the top angle of the triangle can be varied. "By doing leg raises on the quad board, you can improve your leg muscle's endurance while gradually increasing the angle at which you can bend your knee," explains Prince.

Alex Reben

Gus Prince

While working out on the conventional quad board, Prince thought of an improvement which would permit the knee-injured patient to work on the strength of his quadriceps. "My physical therapist wants me to patent my quad board, and knows of a company which wants to market it."

Like a true scientist, Prince plotted his progress on a graph. On his Y axis was degree of flexion of his left knee, and on his X axis was time. Prince's goal was 135 degrees. "By July, I could flex my knee at 95 to 100 degrees, but you could see the pins holding my knee cap together popping up to the skin as I bent my knee."

After checking that Prince's kneecap was fusing properly, his surgeon removed the pins from Prince's knee in another operation in mid July. Initially after the operation, Prince regressed in his ability to bend his left knee. But by the end of August, he was able to bend it 127 degrees.

After the pins came out, Prince began using his rowing machine and exercise bicycle daily to further strengthen his quadricep muscules. On weekdays as well, he began walking along the courses he used to run on site. "It dawned on me that it would be nice to use a measuring wheel to wheel out the courses for the runners at BNL." In addition, Prince thought it would be beneficial to measure the distances between buildings, and along the streets so that runners could add up their total mileage regardless of where they start.

When Prince completed charting the course measurements onto a map of the buildings and roads of the Lab, he certified that his BNL Roadrunners Map is precise to plus or minus 10 feet per mile. A copy of the map is posted in the gym, and extra copies are available from Prince, or Jean Penoyar, DNE, president of the BNL Runners Club.

While making the linear measurements of the site at 7 a.m. during the work week, Prince would walk in the company of Annamarie Spira, DNE. "Gus mentioned that he was going to walk around site every morning, and I thought that it would be a good way to get in shape to run," says Spira. "Until then, I was totally inactive. When I had kids, I forgot about myself. Now that they are grown, I decided to take time for myself. I always wanted to find out what was so thrilling about running. I was curious because runners were so red faced and looked like they were going to have a heart attack, but they said they were having fun."

After she invested in a good pair of running shoes, Spira was coached by Prince, who had her work out using intervals and fast-slow training first at a walk. As she became more fit, Spira was instructed by Prince to combine speed walking with jogging and then jogging with running. Spira now runs 25 miles a week, and is entering short distance run-for-fun races.

Prince, too, followed his own graduated training advice: by October he was able to jog two to three miles without pain, and by December he was jogging five to six miles. "It is like watching the grass grow — a little bit at a time," explains Prince. "I had to have patience with myself. I had to be disciplined not to overextend myself, which was a hard thing to do for someone who has been active."

On New Year's Day, Prince logged 11 "real easy" eight minute miles, and has been training for races since. He decreased his time to 6.5 to seven minute miles, and increased his mileage to 50 to 60 miles per week. In preparation for the Long Island Marathon, on May 6 in Nassau County, Prince is running "double duty," two runs per day, of eight to ten miles, and using short weekend races for his speed work. Prince's goals are to run the New York Marathon, which he has done seven times, and again qualify for the Boston, which he has run five times.

"I'm back competitively," says Prince. "I've run six races in the past three months, finishing first in a five km race, and first in a 20 km race for men 60 years and over." On April 1, Prince took third place among some of the best runners on the East Coast at the Cherry Blossom 10 Mile Classic in Washington, D.C. As a concession to his knee, Prince is presently running races in training flats instead of the lighter racing shoes because the former provide more cushion.

"Arthritis has set in around the knee due to the injury and my age," says Prince. "When I run, it is fine. When the weather is bad, it lets me know about it." To control his arthritis, Prince has taken a nutritional approach. He avoids caffeine, refined sugar and flour, and alcohol; on Mondays, Prince fasts all day.

His last checkup with his orthopedic surgeon is in August. Says Prince, "When I go back to the doctor, I hope to bring along several trophies."

—Marsha Belford

Employee (Cont'd)

tigating her proposal as a participant in the Resource Management Program (RMP). This training program helps employees develop the skills needed to generate feasible ideas for cost savings, the kinds of ideas the ESS is looking for. Both the RMP and the ESS are run by Personnel's Cory Ince.

Helping RMP participants organize their ideas for presentation to management are their supervisors and key administrative staff people. Slavinsky's supervisor, Betty Pergan, immediately recognized the value in Slavinsky's idea and was particularly helpful in getting the project underway. "All the information was on the computer anyway," Pergan said. "We have 3500 capital items in DAS alone, for which we had a double set of cards. And each time one bit of information changed, those cards had to be replaced. Now we've eliminated the cards, but we have more information than we ever had before."

Alex Reben

Joan Slavinsky discards a card.

Though the idea was Slavinsky's, it took the expertise of others to render it fully feasible. In addition to Pergan, Slavinsky acknowledges the indispensable assistance of Kurt Fuchel and Betty Simmons, both of AMD, and Michael Guacci, Supply & Materiel. Their combined efforts made it possible for April 2 to be declared the Lab-wide day of conversion from cards to computer — which explains why Slavinsky's wastebaskets were particularly full that day. Seven thousand obsolete Permanent Property Record cards take up a lot of wastebasket space. — Anita Cohen

In Memoriam

The Bulletin has learned that Thomas V. Sheehan, one of the builders of the High Flux Beam Reactor, died on February 18 at the age of 77. Sheehan, a Sr. Mechanical Engineer, was in charge of the Engineering Division of the original Dept. of Applied Science. He was employed at the Laboratory from April 1, 1949 to June 30, 1971, and then held a consultantship with the Department of Nuclear Energy until 1983.

DNE Chairman Herbert Kouts called Sheehan "an elder statesman of the Engineering Division — a nuclear engineer who was deeply respected and consulted widely."

Sheehan's survivors include his wife Dorothy, of Hampton Bays, and two sisters, Catherine and Isabel Sheehan, both of Chicago.

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Mice (Cont'd)

spirochète causing syphilis, was discovered in 1982. In one study, about ten percent of residents of an area endemic for Lyme disease were exposed to the parasite per year; their reactions ranged from having no symptoms of the disease, to being severely ill. If treated with antibiotics soon after the symptoms appear, a person having Lyme disease usually can be cured. If not treated, a patient may later develop joint, neurological or cardiac abnormalities.

Babesiosis is an acute condition in which the number of red blood cells is less than normal because the red blood cells are being destroyed by the infection. "According to a study, about six percent of people residing in a Babesiosis endemic area were exposed to the organism annually, but could otherwise not be recognized as having the infection because they were not clinically ill," says Ormiston. "A mild case of Babesiosis causes a general uneasy feeling, fever, fatigue, muscle and joint pain, symptoms that are usually passed off as the flu. The people who get severely ill and die from the disease, less than ten per year, have suppressed immune systems, such as the frail elderly, alcoholics, and those who have had their spleen removed."

To prevent these diseases, prevent a tick from biting. "A tick crawls around for two to three hours before biting," explains Ormiston. "Even if it is not attached, remove the tick promptly, preferably with blunt tweezers. If the tick is attached, use the blunt forceps to grasp its mouth parts, the point of attachment, and pull it straight out. Avoid squeezing the tick's abdomen or leaving its mouthparts imbedded in your skin. If you are bitten and get the symptoms of a tick-borne disease, see a physician."

—Marsha Belford

PSI News

The Upton Chapter of PSI will meet on Monday, April 16 at 6 p.m., in Room C, Berkner Hall. William Zullo, a notary public with the New York State Department, will give information on the duties and responsibilities of the notary's office.

Stony Brook Events

April 15

Theatre. "The Woods," a romantic and questioning play by David Mamet, author of "American Buffalo," 8 p.m., Theatre I, Fine Arts Center. 246-5678.

COCA for Kids. "The Sword in the Stone," 12 noon and 2 p.m., Stony Brook Union Auditorium. Tickets: $1; students, $.50.

April 16

Lecture. "A Congressman Looks at National Security and International Affairs." Rep. William Carney (1st C.D.), 8 p.m., Resource Center, Old Chemistry Lecture Center. 246-3450.

April 18-21

Theatre. "God's Trombones," a collection of seven black sermons in verse, written by James Weldon Johnson, 8 p.m., Theatre II, Fine Arts Center. Tickets: $5, students and senior citizens $3. 246-5678.

Panel to Discuss Women's Health

How women can maintain their physical and emotional health when the years start to add up will be the subject of a panel discussion sponsored by the Brookhaven Women in Science on Thursday, April 26. A research scientist, a psychotherapist and a nurse practitioner will give their views on "How to Grow Older and Better" at a WIS dinner-meeting, at 5:30 p.m. at the Brookhaven Center.

Ashok Vaswani, M.D., Associate Director of Endocrinology at Nassau Hospital and Associate Scientist in BNL's Medical Department, will describe osteoporosis, a disease estimated to affect one out of every four postmenopausal women. Vaswani is now involved in a three-year experimental drug study which might help in the prevention of further bone loss in osteoporosis victims.

Jeanine Klein, M.S.W., a psychotherapist and professor of community service in Health Career Development at Suffolk County Community College, will discuss the psychological pressures on women in their midyears and some ways of coping with them. Klein has a private practice, specializing in individual and family therapy. She is a former clinic administrator of the Mental Health Center in Farmingville.

The third member of the panel will be Thelma Georgeson, R.N., a nurse practitioner and Director of Patient Services at Planned Parenthood of Suffolk County. She has had many years experience as a nurse and, since 1977, has specialized in women's health care. She will talk about what menopause is and how the body is affected by it.

Harriet Fadem, Accelerator Department, will moderate the panel discussion during which each panelist will give a short presentation, then answer questions from the audience. A brief WIS business meeting will precede the discussion.

Dinner, catered by Saga Foods, will be served at 5:30 p.m. Anyone planning to attend should send $9.75 (cash or check), to Eena-Mai Franz, Bldg. 703, by April 20.

Easter Egg Hunt

Children up to 12 years old may participate in an Easter Egg Hunt at the Suffolk County Farm & Education Center, Yaphank, on Saturday, April 21, beginning at 12:30 p.m.

Two groups will be formed; 6 years and under, and 7 to 12 years; and prizes will be awarded to those who collect the most eggs. The eggs you find are yours to keep, so bring your own baskets. For information and directions, call 924-4535, Ext. 507 on weekdays, 8:30 a.m. to 5 p.m.

MICOM Meeting

The next meeting of the MICOM Users' Group will be Wednesday, April 18 at 3 p.m. in the conference room of Bldg. 179A (Department of Applied Science). MICOM representatives Ruth Stannish and Eileen Rhiel will be present. A continuation of last month's topics (records processing, applications set-up, and possibly communications) will be discussed and demonstrated on the 3000. For further details, call Isabelle Harrity, Ext. 3727, or June Martino, Ext. 2933.

Theater Group

The Theater Group will meet tonight at 8 p.m. in Berkner Hall. The program for the evening will consist of readings from some recent British plays. We would be pleased to have anyone who is interested in the theater join us, to help read, listen or discuss.

For leading BNL employees to donate to the 1983-84 United Way campaign at record levels, campaign coordinator Roseann Callister, Contracts & Procurement, recently received United Way of Long Island's special Leadership Award. Presenting the award to Callister and James Desmond (right), BNL Business Manager, is Robert A. Nafis (left), United Way of Long Island's campaign chairperson. Overall, contributions to the Long Island campaign during the 1983-84 fundraising year were up about 10% over last year. But at BNL, Callister led employees to increase contributions more than 20%, for a record total of $60,161.

Golf

This is a reminder that the organizational meeting of the BERA Golf Association will be held on Friday, April 13 at 5:15 p.m. in the Recreation Hall.

The first tournament of the BGA season will be held on Thursday, April 26 at the Bellport Country Club. Tee times will begin at 11:00 and may be obtained by contacting Vinnie Racaniello at Ext. 7336 (beeper 170). Green fees will be $10. There will be a $1 entry fee for league members and a $2 entry fee for non-league members, which will be collected at the course. Tee time reservations must be made by April 19.

Bowling

Pink League

S. Asselta had a 172/500 series, R. Rosati 192.

Red/Green League

High games were bowled by E. Sperry IV 266/618 scratch series, K. Riker 245, R. Larsen 228/606 scratch series, J. Muller 225, J. Connelly 225, H. Arnesen 225, T. Prach 219, P. Ouvrard 218, C. Bohnenblusch 209, N. Combatti 205, C. Neuls 202, A. Lorentsen 202, N. Tyler 200, H. Marshall 200.

White League

The Draftecs had a 2658 series which is the high series for this league. J. Pinelli rolled games of 208/202 for a 602 scratch series, 719 gross, E. Sperry 221/201/607 scratch, A. Pinelli 214/599 scratch, K. Griffin 185/193, S. Gushue 211, B. Glasmann 207, B. Sells 202, K. Riker 204.

Basketball

Boxscores — 4/5/84

Game 1

Runaways — 94		Longshorts — 91	
P. Johnsen	44	L. James	22
D. Hedin	4	J. Garrison	6
R. Banks	4	B. Johnson	14
T. Money	4	D. Harris	26
T. James	22	B. Danowski	2
S. Gilbert	16	R. Seymore	17
		J. James	4

Game 2

Coasters — 92		Hollywood — 71	
B. Orr	30	L. Walcott	28
M. Fulkerson	8	B. Schuman	6
B. Jasper	5	B. Woodson	8
M. Williams	16	R. Kowalski	8
R. Doty	18	M. Coleman	21
L. Smith	4		
E. Taylor	11		

Team Standings

Hollywood	7-3
Longshots	6-4
Runaways	5-5
Coasters	2-8

Microcomputer Club

The MacIntosh Apple Computer will be demonstrated Thursday, April 19, from noon to 1 p.m. in the Biology library, Bldg. 463. The showing will be conducted by an on-site owner, Daniela Sciaky. For more information, contact Jim Hainfeld, Ext. 3372.

Arrivals & Departures

Arrivals

John J. Addessi ..... Accelerator
Detlef Gabel ..... Medical
Thomas J. O'Leary ..... Plant Engrg.

Departures

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

Mary H. Cox ..... Medical
Ragna A. Davidsen ..... Medical
Michael A. Giammarinaro .... Medical
Norma G. Gillespie ..... Medical
Gail Holden ..... Medical
Kari Johannesen ..... Medical
Rosemarie Long ..... Medical
Leslie L. Sealey ..... Plant Eng.
Ressi Stewart ..... Medical
Joyce Vail ..... Medical

Cafeteria Menu

Week ending April 20

Monday, April 16

Potato leek soup	(cup)	.65
	(bowl)	.85
Beef Stroganoff on noodles		2.00
Breaded pork chop w/1 veg. & applesauce		2.00
Hot Deli: Veal patty Parmesan	(bread)	1.95
	(roll)	2.10

Tuesday, April 17

Chicken soup w/matzo balls	(cup)	.65
	(bowl)	.85
Breaded chicken cutlet & 1 veg.		2.10
Beef chimichanga w/Mexican fried rice		1.95
Hot Deli: Pastrami	(bread)	1.95
	(roll)	2.10

Wednesday, April 18

Navy bean soup	(cup)	.65
	(bowl)	.85
Top round of beef & 1 veg.		2.05
Breaded perch & 1 veg.		1.85
Hot Deli: Monte Cristo		1.90

Thursday, April 19

Beef vegetable soup	(cup)	.65
	(bowl)	.85
Macaroni & cheese w/1 veg.		1.85
Stuffed pepper & 1 veg.		1.90
Hot Deli: Roast turkey cheddar melt	(bread)	1.95
	(roll)	2.10

Friday, April 20

Easter Special
Seafood Platter
$2.50

Seafood gumbo	(cup)	.65
	(bowl)	.85
Turkey chow mein on rice		1.90
Hot Deli: BBQ top round of beef	(bread)	1.95
	(roll)	2.10

A chocolate Easter bunny will be raffled off Friday at 1:30 p.m., using meal receipts as raffle tickets.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

LABORATORY RECRUITMENT: Opportunities for Laboratory employees only.

2035. SECRETARIAL POSITION - Requires AAS degree in secretarial science or equivalent and excellent communication and clerical skills. Familiarity with Lab practices and policies and experience in typing technical manuscripts on a word processor necessary. Instrumentation Division.

OPEN RECRUITMENT: Opportunities for Laboratory employees and outside applicants.

2036. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Requires minimum of five years' industrial electrician experience. Plant Engineering Division.

Autos & Auto Supplies

74 AMBASSADOR - 8 cylinder, 4 dr., runs well, good car pool car, $900. Roger Ext. 2384.

70 VW - mag wheels, good tires, brakes, heater box, runs well, $300. Tom, 286-1899 eves.

GERMAN AUTO PARTS - wholesale prices on new parts for VW, Porsche, Audi, BMW, MB. Augie, 289-4211.

SHOP MANUAL - 1973 Pontiac LeMans, excel. cond., $6; service manual, 1973 Honda Civic, mint cond., $8. Morris, Ext. 4986.

CAP - for 8' bed, new, reasonable. 878-8459 after 6 p.m.

78 HONDA - 750K, fairing, radio, 11,000 mi., excel., $1,500 firm. Ed, 929-6798 after 6 p.m.

76 VW RABBIT - 4 dr., 62,000 mi., good cond., $1,800. Ext. 2537 or 473-1658 after 6 p.m.

MOTORCYCLE - parts & accessories; 1983 Maico 250cc; 400 x 18 Metzeler ME99 tire. 325-9580 after 6 p.m.

MOPED - Tomas, 5,000 mi., 2 baskets, 30 mph, 90 mpg, $200. Tony, Ext. 3637.

76 CHEVY MALIBU CLASSIC - 89,000 mi., small V8, a/c, p/s, p/b, new tune-up/tires, best offer over $1,800. 744-3298 days/weekends or Ext. 2926 eves.

72 VOLVO - 142E, runs ok, good for first or town car, $700. Eric, 289-2352.

72 CONCORD TRAILER - 24', bath, kitch., 30 gal. water tank, gas & elec., windup jack, sleeps 5, good cond., $2,500. 475-4831.

79 DODGE - station wagon, 66K, roof rack, am/fm cass., p/s, p/b, a/c, slant 6 eng., clean. 543-0079.

80 KAWASAKI - 650 LTD, red, crash bars, excel. cond., $1,400. Bob Johnson, 475-2305 or 283-4741 after 6 p.m.

77 MG MIDGET - $1,500. Bill, 924-0121 after 6 p.m.

80 TOYOTA - 4 x 4, cap, extras, $6,500. 878-8255 eves.

80 HONDA ACCORD - hatchback, am/fm, new tires, good cond., $4,500. 929-4268.

73 SWINGER - runs well, 2 new tires, p/s, 6 cyl., good on gas, good second car, $600. 727-7096 after 6 p.m.

72 DUSTER - parts or whole, 8' pick up bed. Ken, 289-8212.

78 AUDI FOX - 4 dr., auto., sunroof, am/fm stereo, new eng., $2,300. 475-4340 after 3 p.m.

80 SUBARU - 1600GL station wagon, 5 spd., am/fm, good cond., high mi., $3,000 or best offer. Nora, Ext. 2921.

78 MERCURY MONARCH - 6 cyl., a/t, a/c, p/s, p/b, 4 dr., 70,000 mi., $2,000. Jackie, Ext. 3908 or 585-4038.

75 OLDS CUTLASS - auto., p/s, p/b, am, just inspected. Ext. 7921 or 298-8145 eves.

80 SUZUKI MOTORCYLE - GS450L, excel. cond., $650; VW's, 70 Sq. Bk., 73 Thing, $500/ea. or make offer. 289-8253.

78 DATSUN B210 - 4 spd., 2 dr., am/fm, new brakes, muffler system, $1,200. 728-2433 after 6 p.m.

78 HONDA 750K FAIRING - radio, 11,000 miles, excel., $1500 firm. Ed, 929-6798 after 6 p.m.

68 VW ENGINE TRANS. - excel., needs front end work, $200. 331-5567.

1981 FORD 250 PICKUP - excel., 31,000 miles, auto., overdrive, $6,000. Slim, Ext. 3084.

74 CHRYSLER NEWPORT - 4 dr., $500 or best offer. 727-5912.

79 CUTLASS SALON - 4 dr., a/t, p/s, cruise, a/c, tilt, am/fm st. clean, new exhaust, white, 73k, $3,100. Ext. 4242.

74 CHEV BEL-AIR - am/fm, V-8, great second car, $700. 821-0758, 6 to 8 p.m.

76 MERCURY MONARCH - excel. running cond., many extras, $1,700. 744-6423

74 AUDI FOX - good transportation, runs well. Greg, 286-8814 after 6 p.m.

76 HONDA - parts only, $350. 331-9060 after 6 p.m.

76 BROUGHAM CAMPER - fully self-contained, sleeps four bathrm., range, refrig., cruise control, raised roof. 732-7288.

MOPED VESPA BRAVO - super delux, class B, excel. cond., used very little, $500. Lloyd, Ext. 3381 or 286-1024.

76 PINTO WAGON - V-6, auto., p/s, p/b, runs well, body ok, $1,100. Ext. 5294.

79 MERCURY CAPRI - 4 cyl., auto., p/s, garaged, excel. cond., many extas, hatch-back, $4,300. 727-8523.

HONDA XR80 DIRT BIKE - excellent cond., new back tire. Neal, 286-2435.

75 CHEVY VEGA - rebuilt motor, auto., a/c, runs well, needs body work, $300. 744-1040.

68 CAMARO - clean inside and out, am/fm stereo, new ties, rims & battery, $1,500. Dick, Ext. 4313 or after 6 p.m. 369-2857.

72 VW SQUAREBACK - runs well, good transportation. Rich, Ext. 4363 or 286-1183 or 924-7238.

74 MUSTANG - 4 spd., 6 cyl., am/fm, $900. 744-6668 after 6 p.m.

74 AMC HORNET - runs, $250. 399-6585.

77 FORD T-BIRD - champagne color, fully loaded, excel. cond., best offer. Ext. 3960 or 360-0547.

79 MERCURY CAPRI - p/b, a/c, am/fm tereo, hatchback, excel. cond., $2,875. 744-5224.

TIRES - (2) Tiempo steel-belted, radials, P195/75R14, $10/ea. Ext. 3919.

FRONT GRILL - 65 Dodge dart, like new, $10. Morris, Ext., 4986.

73 HONDA XL250 - 6,000 mi., good condition, 4 cycle, for street or trail use, $450. Ext. 3458 or 369-2504.

BMX MONGOOSE - racing parts, zap pads, excel. cond. Neal, 286-2435

76 CHEVY MALIBU CLASSIC - 89,000 mi., small V8, a/c, p/s, p/b, new tune-up/tires, best offer over $1,800. 744-3298 days/weekends or Ext. 2926 eves.

Boats & Marine Supplies

49 CHRIS CRAFT - 17' powerboat, vintage, mahogany, mint cond. Joe, Ext. 7961 or 722-3957 eves.

CATALINA 25 - poptop, fixed keel, 4 sails, 80 Honda 9.9 o/b, VHF & many extras, $14,500. 473-2473 or 744-7127.

CAPE DORY TYPHOON - 19' sailboat, full keel, shoal draft, sturdy cruiser. Joe, Ext. 7961, or 722-3957 eves.

75 STARECRAFT - 21', center console, 70 HP motor, tee-nee trailer w/electric hoist, $5,000. 744-9475.

80 CRESTUNER - V6 Merc, power trim, mooring cover, full canvas, 24 gal. fuel tank, 7 gauges, shoreline trailer, power steering, ss swim ladder, teak trim, mint cond., garaged. Brian, 751-1581.

ZINC - shaft collars, rudder buttons, outdrive zincs, mercury, OMC, VOlvo, etc. Bill, Ext. 4662 or 298-4089.

COLUMBIA 26MKII SAILBOAT - Shoal draft keel, 5 new sails, rf head stay, instruments, $15,500. 286-2689.

OUTBOARD MOTOR - 76 Johnson, 15 h.p., long shaft, electric, $425. Bill, Ext. 7229, 473-1813.

14 FT ROWING BOAT - Whitehall Type, fiberglass-teak, spoon oars, $850; 9 ft. Dyer dinghy fiberglass, complete sailing gear, floorboard, bilge runners, raised transom, $950. Paul, Ext. 2177.

WATER HEATER - 10 gal, 120 V. 1500 W. or engine cooling water, excel. cond., $100. Louttit, ext. 4745 or 744-3225.

Miscellaneous

EASTER BUNNIES - choice of colors, $10. 363-6292 eves. and weekends.

CHROME BLENDER - 2 spd., Osterizer, excel. cond., $10; wood baby swing, like new, $6. Morris, Ext. 4986.

BIKE - Ross, 26", boy's, $50. Dick, Ext. 4255 or 744-6794.

PIANO - study, Weber, upright, standard, $125 or best offer. Ext. 4604.

DINING ROOM TABLE - antique, oak, claw feet, $600; matching buffet w/mirror, $300. Ron, 289-1003 after 6 p.m.

CAR SEAT - Strolee, mint., $25; rocking horse, infant to 4 yrs., mint, $15. Mike, Ext. 7941.

SNOWMOBILE - child's, 4 HP Briggs, 20 mph, good shape, $75. Joe Bush, Ext. 4638.

DRILL MOTOR - 1/16" to 1/2" capacity, Black & Decker, 375 rpm with drill index, $50. Katherine, 281-8021.

ENTERTAINMENT UNIT - 53", walnut, radio, record player, TV, nice piece of furniture $50. 473-1456.

SITAR - Indian, professional, cost $1,500, asking $400; Hindu records, 78 rpm, old, one or all asking $2 ea. 929-4701 or 929-8105.

CRAFTSMAN 10" RADIAL ARM SAW - w/acces., excel. cond., $275. Bob, Ext. 7772 or 744-8581.

CHICKENS - 5 hens, large white birds, $5/ea. Whitey, 2913.

BUNNIES - $5. John, Ext. 3675 or 924-3528.

REGINA FLOOR POLISHER - twin brushes, w/accessories, $25. Morris, Ext. 4986.

IBM PC - mono display, 2 drives, 64K, 4 mos. old, asking $2,750. Ext. 3301.

KRAFT SPORTSERIES R/C - 4 channel, 4 servos, 40 motor, Sullivan starter, accessories, $200. Ext. 3341 or 981-9474.

POWER MOWER - 2 HP, Briggs Stratton, motor reel type, old but working cond., $25. 751-6820.

REFRIGERATOR - good for apt., white, good cond., $45. Bob, Ext. 4758.

GO CART - dune buggy, 5 HP, 1 yr., over size tires, roll bar, $450. Guy, 732-6712.

DYNAKIT STEREO - preamp and power amp, all new tubes, $30. Dave Cook, Ext. 4254.

WURLITZER ORGAN - double keybaord, with rhythm and bass pedal bench, like new, $650. 821-0080.

ELECTRIC PIANO YAMAHA - CP-20 touch sensitive, $400; Acoustic 140 bass amp., w/106 bottom, 2-15c, $200. 331-5567.

WURLITZER ORGAN - 2&3 wheel bicycles, baby stroller, lawn mower, belt exerciser, 2-5 ft. Yews. 924-3755.

MASTERWORK - am/fm stereo with turntable and two speakers. 286-8718.

EVERGREENS - golden oriental aborvitae, 5 ft., excel. cond., you dig, $10/ea. Joe, Ext. 2575 or 281-2767 eves.,

CRIB - white, spindle, w/matching 5-drawer chest, w/brass hardware, very good cond., $150. Mark, Ext. 5176.

RUNNING SHOES - new, Balance 660, size 10 1/2, very good cond., only $35. Jeff, 351-1017.

WINDOW BLINDS - verticals, minis, woven woods, custom colors and sizes. Jim, 281-2849.

APPLE II DISC GAMES - Spare Vikings; $25, Flight Simulator, $15; both $35. Jim, Ext. 4347.

CASEMENT WINDOWS - heavy duty, aluminum, screens, incl., various sizes, $20/ea. Niels, Ext. 4124.

BABY ITEMS - stroller, $10; dressing table, $5; swing, $5. Ext. 5371, or 472 4087 after 6 p.m.

OSTER JUICE - $15, almost new. Ext. 3701.

SULKY - for Gravely tractor; 3 speed bike. 363-7032.

SPALDING CATCHER'S FACE MASK - new cond., $5; shoe rack stand, chrome, holds 9 pr. of shoes, new cond., $3. 727-3608 after 5 p.m.

BLACK & DECKER LAWN MOWER - w/100' extension cord, $60; weed eater, $20. Louise, Ext. 3405.

19" ADMIRAL COLOR TV - works, tubes need cleaning, asking $100. 878-2239.

COMPUTER VIC-20 - used only few hours, $50. 282-3105.

AM/FM CLOCK RADIO TELEPHONE - used less than one year, excel. cond., $40. Gloria, Ext. 2901 or 369-2922.

ATARI 2600 - w/9 cartridges, excel. cond., $100. Ext. 4486 or 878-0480 eves.

DRAFTING SET - K+E Jupiter N9406B, 6" bow pen & pencil, 6' divider, 5" bow pencil, pen + divider, chrome plated brass, like new, $40. Dick, 878-1580.

WAGONER POWER PAINTER - 14 attachments, retail price, $150, gift used once, $100 or best offer. James, Ext. 7917.

WURLITZER ORGAN SPINET - solid cherry, model 4300D, multimatic percussion, excel. cond., $900. Lloyd, ext. 3381, 286-1024.

HEADBOARD - king & 3/4, your price. Ext. 8105 or 929-4701.

GUITOR - beginner's acostic, excel. cond., $20. Nick, 286-2435.

O'BRIEN SKI WITH ROPE - travel bag and vest, $100. Mark, Ext. 4031.

EASTER BUNNIES & CAKES - for any occassion. Carol, 289-3917.

POOL FILTER SAND - w/6 position valve, includes 1 h.p., Lomar motor, $250. Bob, ext. 7772 or 744-8581.

GIRLS DRESSER - 2 drawer 68h/39w/19d, $12; fir & spruce trees, u-dig 22" to 46" 2 for $9; 2 dr., wardrobe, $10. 878-6637.

REFRIGERATOR - 12 cu. in., white, runs great, must sell, Roy, Ext. 4664 or 331 2401.

INTERNATIONAL CASH REGISTER - oak and metal cosntruction, very old, excel. cond., make offer. Martin, 654-1634.

TWIN BEDS - extra long, extra firm, join for king size bed, $150. Gerry, Ext. 4771 or 286-8747.

REFRIGERATOR - Fridgiare, 4 yrs. old, 12 cu/ft, runs excel., $75. Roy, Ext. 4664 or 331-2401.

BICYCLE - girl's, 26", 3 spd., $50. Ext. 5125 or 286-3906 after 6 p.m.

GOWN - w/matching picture hat, good for spring or summer wedding or prom, 7/8, will sell separate. 878-2239.

ELECTRIC BASS GUITAR - Univox, w/National amplifier, mint cond., hardly used, $175. Ann, Ext. 2456 or 585-5870.

STEREO - amplifier-receiver, Pioneer, SX636, $80. Ext. 2041.

DIAMOND RING - ladies, pear shape stone, VVVS, make offer. Whitey, Ext. 2913 or 928-3088.

PUPPIES - Shih-Tzu, AKC reg., 6 wks. old. Ext. 7727 or 928-4631.

NATIONAL GEOGRAPHICS - 1964 to 1984 complete, $75; soft suitcase, $10; tables, trunks, cabinets. 929-4701 or 929-8105.

SKIS - Spalding Alfa with Tyrolia, 120 bindings, 170 cm., ladies size 8, boots, poles, very good, $80. Fred, Ext. 4988.

PIANO - Koehler and Campbell, baby grand, good cond., $900. 282-4142 or 727-6214.

PUPPIES - Pitbull, 9 wks old, with papers. John, 878-0794.

PARTICLE BOARD - 4' x 8' sheets, 3/4", new, seven for $40. Whitey, Ext. 2913.

CEILING TILES - used, industrial, white, insulating, 24 x 48 x 5/8 thick, 65 tiles $25. Ext. 2981 or 473-7809.

BEDROOM - triple dresser, chest, two night stands, double bed frame, solid mahogany, mirror, $500. 751-1562.

EASTER COOKIES - $5/lb; bunny breads $1.50 ea., delivered to Lab. Adrienne, 654-4206.

HUGGABLE DOLLS - $18; Cabbage Patch doll clothes $3.50 and up, doll's sweater sets. Rose, 737-0246.

MAPLE SYRUP - from my family's VT farm, 1/2 gal. $12, qt. $7. P. Wanderer, Ext. 7687.

MOTORCYCLE HELMET - brand new, genuine police style. Original cost, $70 asking $50. Dick, Ext. 3273.

GOLF CLUBS - men's starter set 3, 5, 7, 9 putter, driver, 3 wood, in new continental nylon carry bag, $75. Lloyd, Ext. 3381.

STEREO - cassette deck, auto-turntable, 2 speakers, $75. 289-7292.

KENNEL CABIN - for travel on plane, for 25 lb dog, 36"x24"x27" or smaller. Ext. 3222 or 3755.

Free

CAT - 10 yrs. old, looking for a loving home. Ext. 4053 or 732-7634 after 6 p.m.

OLD ENGLISH SHEEPDOG - w/papers, needs good home, female, 2 yrs old. Rose, 473-5896.

GERMAN SHEPHERD - 18 months old, papers, extremely nice, playful, needs love from children. 698-2039.

Real Estate

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

For Sale

SHOREHAM - 4 bdrm. cape, 1/3 acre, wooded, cul-de-sac, private beach rights. Ext. 3262 or 821-1726.

SHOREHAM NORTH - 4 bdrm., 2-1/2 baths, full brick wall f.p., 2 car garage, 3/4 acre, professional landscaped. 821-0080.

BLUE POINT - 2.3 acres, large barn, renovated country home, ideal for horse lovers. 363-7032.

CORAM - Birchwood at Brettor Woods Condominium, 3 bdrm., den, formal dr, 1-1/2 baths, patio, 1/2 block from clubhouse. Ext. 7338, 732-6822 after 5:00 p.m.

LEISURE VILLAGE - "Greenbriar," 2 bdrm., good locaton. 744-7140.

STONY BROOK - 3-bdrm., Colon. lr, dr, fr. eik, 2-1/2 baths, full bsmt, 2-car garage, 3-Village S.D. 751-4868 after 5 p.m.

For Rent

CORAM - La Bonne Vie, 2 bdrm. apt., new lease or sublet up to 9/30/84, d/w, cent. a/c, $610/mo., heat incl. Yannis, Ext. 2435 or 732-6546.

VERMONT CHALET - beautifully furn., stone fpl., on lg. pond, near lake w/swimming, canoeing, woodland trails, near Alpine slide, tennis, golf, summer theatre, music, antiqueing, wkly. rentals. 757-5599.

LAKE PANOMOKA - large 3 bdrm. apt., dr., lv., etc., garage, step to beach, $650, avail. May 1. 473-1493.

WADING RIVER - sublet, 4 rm. apt., 1 person, non-smoker, no pets, Aug. 1 thru Nov 30, $400/mo. Janet, Ext. 2345 or 929-8152.

WADING RIVER - furnished/unfurnished, 3 rm. apt., full bath, private entrance, util. incl., patio, walk to pvt. beach, sunny, airy, $400/mo., 1 mo. sec. 929-8772.

MID ISLAND - 2-3 bdrm. house, dining rm., living rm., kitchen, on quiet river, fishing, boating, swimming, 5 min. from Lab., security, references. 924-3735.

BERKSHIRES CHALET - 3 hrs., from NYC, 3 bdrms., 2 baths, fully equipped kitchen, electric heat, deck w/spectacular view, near lake, hiking trails, available weekends or weekly. 929-6946 after 6 p.m.

SHIRLEY N. - room for rent, 5 min. from Lab. 924-4133 or 924-7894.

SMITHTOWN PINES - near highways, beautiful 4 rm. apt., yard, private, avail. May 1, carpool to BNL also avail., $650 incl. all. Ext. 2676 or 543-0487.

Car Pools

NORTHPORT - Ft Salonga, 8:30 to 5 p.m., need 1 or 2 additional riders. Walt, Ext. 7154 or Eva, Ext. 7772.

RONKONKOMA - 2 drivers to join existing pool, meet near LIE exit 59, 8:30 to 5 p.m. Victor, Ext. 2395.

RIVERHEAD - start or join existing car pool, flexible hours and days. Peter, Ext. 2824 or 727-3218.

BABYLON/W. ISLIP - driver needed for on-time car pool, 8:30-5:00. M. Tesla, Ext. 2705.

Wanted

COMPACT CAR STORAGE - Bellport, Brookhaven, E. Patchogue, area, reas. Ext. 4689.

HOUSE TO RENT - 2 bdrm., after April 1, mod. rent, in Southold Town area. Ext. 7921.

TRAINS - Lionel, American Flyer, accessories, any condition brings good price. Carole, Ext. 3362 or 924-4097 eves.

MERCURY OUTBOARDS - 76 and newer, parts or complete, top dollar paid. 654-0880.

HOUSE TO SIT - free, responsible and caring, any period any duration, April 15 until Oct. 15. J. Allentuck, Ext. 2412.

TRAVELMATE - to tour the USA, hike in National Parks, 5 wks between May & July. Marc, Ext. 3867 or 2520 rm. 47.

6 FT. SLIDING GLASS DOORS - Ext. 4630.

ENGINE HOIST - knock down type, heavy duty. Ext. 5294.

SMALL RUG - or floor mat. Roland, Ext. 3969 or 924-3669.

PLASTIC LIDS - from any Maxwell House coffee cans - need 150 by November. 878-6637.

MINI-BIKE/GO-CART - chassis complete, with or without engine, cheap. Bill, 698-4882 after 5 p.m.

TWIN BED - for child. Bruno, 3369 or 289-6013.

FORMAL GOWNS - needed for costumes in school musical, sizes 8 to 14, reasonable. 878-9418

OUTBOARD MOTOR - 20 or 25 h.p., in good cond., 1980 or later. Bill Espensen, Ext. 3992.

80 TERCEL OR COROLA - 5 spd., low mileage. Debbie, Ext. 3420 or 736-4280 eves. & weekends.

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