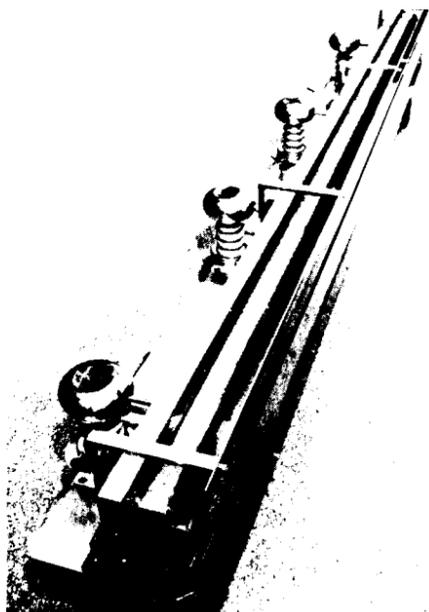


## New Device Improves AGS

An electrostatic septum was installed and brought into operation last week in the Alternating Gradient Synchrotron (AGS), and as a result the extraction efficiency is now 97 percent. The improved extraction efficiency means better proton delivery and, perhaps more important, lessens induced radiation.

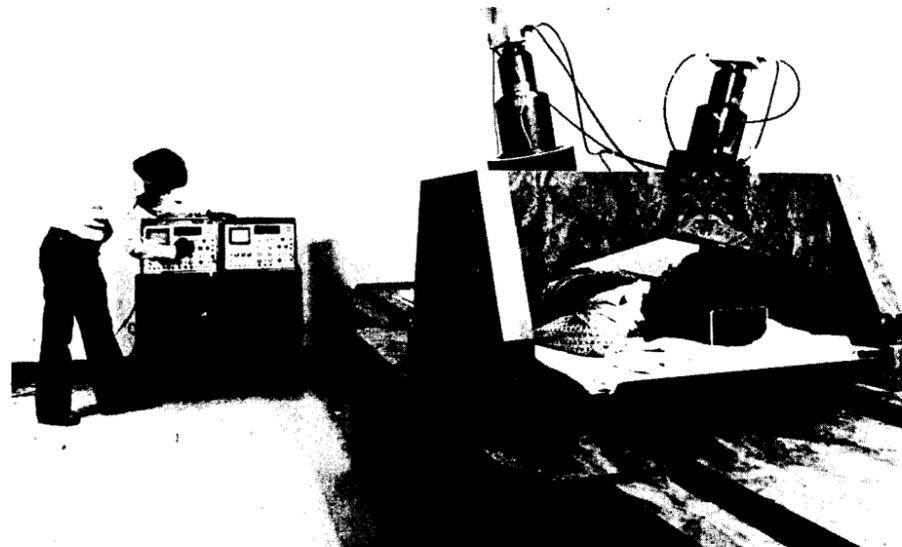


Electrostatic septum now in operation at AGS

The septum consists of 1,800 Tungsten-Rhenium alloy wires, 0.005 cm in diameter, precision aligned to within 0.002 cm over its 225 cm length. An electric field of 80,000 volts per centimeter is applied in order to "peel off" protons which have been accelerated by the AGS and thereby direct them to the experimental areas. The thinner the septum, the more efficient is this extraction process, and the new septum is a considerable improvement over the 0.075 cm thick copper septum which had been used up till now with an extraction efficiency of only 80 to 90 percent.

An obvious benefit of the improvement is that ten percent more protons can be delivered to the experimental areas. A more important benefit however has to do with induced radioactivity. Protons which do not get extracted eventually bombard various parts of the accelerator and in time, damage it. The new septum is expected to reduce the damage associated with extraction by at least a factor of five.

The team that brought the septum into operation included physicists J.W. (Woody) Glenn and Howard Weisberg, mechanical engineer Lou Repeta, mechanical designer Dick Lingg, mechanical technicians Gordon Rackett, Fred Schneider, Chuck Trabocchi and Brian Vogt, electrical engineers Gary Smith and Jon Sandberg and electrical technicians Bill Cahill and Carl Eld.



David Vartsky (left) and Charles Zollo, both of Medical, demonstrate how measurements of total-body nitrogen are made.

## Researchers Study Role Of Nutrition in Cancer Therapy

Researchers in BNL's Medical Department and Long Island Jewish-Hillside Medical Center have begun a three-year joint study of the role that diet and nutrition play in the clinical management of cancer patients, under a \$1.5 million contract with the National Cancer Institute.

They will use a unique neutron activation technique developed here at BNL, which allows direct measurement of total-body nitrogen in living persons. By measuring the amount of nitrogen and other elements present in cancer patients' bodies, the researchers will be able to monitor changes in their body composition and nutritional status more accurately than has ever been done before.

The result will be a clearer picture of the relationship between a patient's nutritional status and his reaction to cancer therapy, and information on which kinds of diets are most useful in maintaining proper nutritional status during therapy.

A total of 180 cancer patients and 280 healthy volunteers will take part in the study, said Stanton Cohn, head of the Medical Applications of Nuclear Technology Group, who is principal investigator for the project. Co-principal investigator is Arthur Sawitsky, M.D., of Long Island Jewish.

Diet and nutrition may play critical roles in the clinical management of cancer patients, said Cohn, because tissue depletion usually occurs as a result of malignancy. "If proper nutritional status isn't maintained during therapy, a patient might literally starve to death," he said. "But it's difficult to evaluate a patient's nutritional progress because the degree of tissue depletion is not always reflected in weight changes."

The causes of the tissue depletion are not fully understood, said Dr. Sawitsky, although several factors are assumed to play a part. Among them are loss of appetite, interference with body functions by tumor activity, and changes in metabolism which may result in patients requiring more calories than they normally would.

To help maintain adequate nutritional status during therapy, cancer patients are often placed on special programs of "hyperalimentation," or increased food intake, said Dr. Sawitsky. In addition to encouraging patients to eat as much as possible and making their food especially palatable, special diets are used which contain large amounts of proteins or carbohydrates, and extra supplements of vitamins and minerals.

Evaluating a patient's progress on a particular diet is more complicated than simply monitoring his weight, explained Cohn. If accumulation of water is the reason for weight gain during treatment, for example, the patient may be deteriorating rather than improving. And when a particular diet produces weight gain, it is very difficult to tell if the increased tissue is fat, or more useful muscle or organ tissue.

For the study, researchers will keep track

of patients' nutritional status by actually monitoring their body composition, using nuclear medicine techniques which measure the amount of certain chemical elements found in various types of tissues. By determining the relative amounts of these elements present in a patient's body, they will be able to infer what proportion of the body mass is made up of muscle, bone, organ tissue, fat and water. If a change in diet results in an increased amount of a certain element, the researchers will be able to tell what type of tissue is being increased.

Measurements will be made at the Medical Research Center, using several different techniques. An important research tool will be a new irradiation and counting facility which was designed and built by Kenneth Ellis and David Vartsky of the Medical Department. It is the only machine in the country which can make direct measurements of total-body nitrogen in living subjects.

The measurement of nitrogen is crucial to the study, explained Cohn, because 99% of the nitrogen in the human body is contained in tissue protein, located chiefly in muscle. Changes in total-body nitrogen therefore reflect changes in body protein. If a particular diet increases a patient's total-body nitrogen count, researchers will know that the diet is producing an increase in useful protein-based tissue.

The technique used for nitrogen measurements is called "prompt gamma ray analysis." When measurements are made, the subject lies on a bed which moves slowly over a source which is emitting neutrons. As the neutrons pass through the body, they are absorbed by the nuclei of the nitrogen atoms present in the body. In this "capture" process, the nitrogen gives off gamma rays which can be counted by special detectors placed above the bed. The scanning process takes about half an hour.

BNL's main neutron activation facility and Whole Body Counter will be used to measure several other elements (including potassium, calcium, phosphorus, sodium and chlorine) which are found in different tissues. The result, said Cohn, will be a "picture of the body composition" of each subject.

Approximately 180 Long Island Jewish inpatients and outpatients, who are undergoing therapy for various kinds of cancer, will take part in the study. They will be brought to the Lab by car for the measure-

(Continued on page 2)

## Some Facts About The HFBR

In response to inquiries which have been received for information about both the Laboratory's High Flux Beam Reactor and a power reactor such as the unit at the Three-Mile Island Power Station, the following is a brief description of certain features of these two reactor systems.

In general, the HFBR is smaller and far less complex than a typical power reactor. As a research reactor, the HFBR is operated only as a source of neutrons and is therefore not designed or equipped to generate steam. This greatly simplifies the design and operation of the HFBR and eliminates the need for high temperatures and pressures, as well as the complex equipment required to generate electrical power.

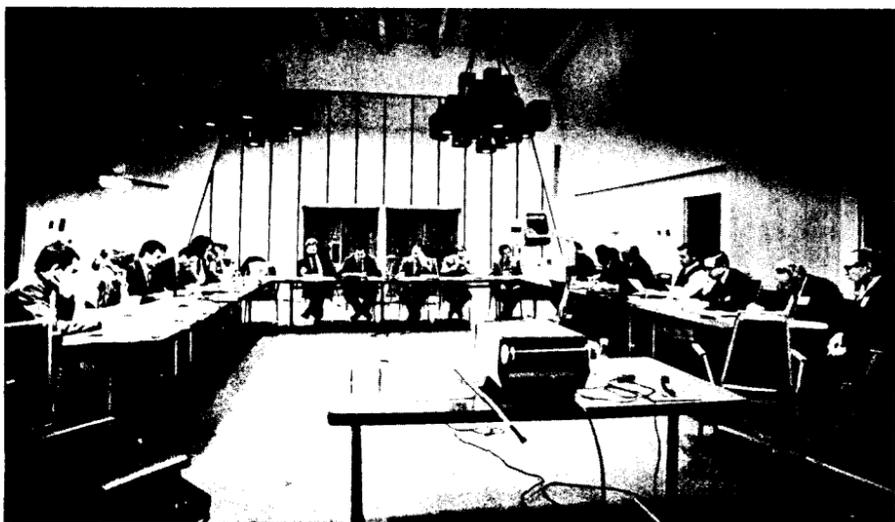
For instance, while the HFBR operates at a thermal power level of 40 megawatts, a large power reactor will operate at a power level of approximately 3,000 megawatts. The temperature and pressure of the

primary water system (which cools the reactor core), are 140°F and 200 pounds per square inch, respectively, at the HFBR. A power reactor, on the other hand, operates at a temperature of approximately 570°F and a pressure of 2,000 psi. Because of the low temperatures in the primary system, a sudden and complete depressurization of the HFBR will not result in either the generation of steam or the voiding of the reactor core.

Hence, the elaborate ECCS (Emergency Core Coolant System), provided to cool a power reactor under emergency conditions, is not required for the HFBR. Shutdown cooling at the HFBR is provided by a set of small pumps powered from the normal building electrical power supply, with alternate back-up battery and emergency generator power sources. In addition, the HFBR core can cool itself by natural circu-

(Continued on page 2)

## Exchange Of Information On Hydrogen Production



Last week, Brookhaven hosted a series of International Energy Agency meetings on the production of hydrogen. Two working groups dealt with low temperature and high temperature electrolytic production, and a third, thermochemical hydrogen production. At the meetings, a formal exchange of technical information in this area was begun among participating countries. The countries involved include Belgium, Canada, Germany, Italy, Japan, the Netherlands, Sweden, Switzerland, United Kingdom, United States, and the European Economic Community. Since 1975 Frank Salzano and S. Srinivasan of DEE, have been organizing this cooperative effort for the IEA which is expected to conserve research dollars for the participating countries, and also increase overall research and development. Presentations on BNL research were made by John Fillo, Hugh Isaacs, James McBreen, Chiang Yang and Richard Yeo. John H. Russell (General Electric), John Murray (Teledyne Energy Systems) and Arnold O. Isenberg (Westinghouse) also described the results of work done by their companies under the sponsorship of DOE. The IEA Executive Committee, responsible for the overall activities, met here on Thursday and Friday. The U.S. DOE representative to this group is James Swisher, Assistant Director of DOE's Division of Energy Storage, who is also responsible for BNL's hydrogen program. —photo by Humphrey

## Haworth Memorial

A memorial service will be held for Leland J. Haworth on Thursday, April 19, at 3:30 p.m. in Berkner Hall. All employees who can be spared from work are welcome to attend.

## Speakers Bureau March

**Irvin Meyer (Chem.)**, Shoreham-Wading River Middle School, "Glass and Lab Application Glassblowing," March 1.

**Karen Schaich (Med.)**, "Tops" in Centereach, "Digestion and Metabolism Basis (or why your reducing diet doesn't work)," March 1.

**Lewis Jacobson (PE)**, McPhibben/Omega Management Club, "Energy Conservation," March 8.

**Fern Coyle (Phys.)**, Walt Whitman High School, "Careers in Computer Science," March 8.

**S. Sethu Raman (DEE)**, Institute of Environmental Sciences, "Atmospheric Programs at BNL," March 15.

**Scientific and Professional Women's Panel:** Louise Akins (Math), Sharon Dobbs (DNE), Louise Hanson (DEE), Claire Kochendorfer (Accel.), Victoria McLane (DNE); Shoreham-Wading River High School, "Non-Traditional Careers for Women," March 16.

**R.C. Anderson (DO)**, Superintendents' Conference Day at North Shore High School, "Energy Options for the Future," March 16.

**R.C. Anderson (DO)**, Rotary Club of Rocky Point, "BNL, Energy Options and Nicola Tesla," March 20.

**John Blewett (Accel.)**, **John Dunn (Bio.)**, **Grahame Williams (Chem.)**; Shelter Island 14th Annual Science Fair, Science Fair Judges, March 23.

**Edward McFadden (Math.)**, Future Business Leaders of the World at Westhampton High School, "Careers in Computers," March 27.

**John Blewett (Accel.)**, Lions Club of Mattituck, "Energy," March 28.

**John Usher (DNE)**, Kings Park High School Honors Program, "Nuclear Fusion," March 29.

## Advance Registration For SUNY Courses

Advance registration for SUNY-Stony Brook extension courses to be offered at the Laboratory and elsewhere next fall will be held on Wednesday, May 2 from 10 a.m. to 12 noon in the Oceanographic Division Seminar Room, Bldg. 318. Dr. Daniel Dicker and Mrs. Esther Weitzman will be present to register and advise students.

Next fall a course in Computer Science, MSC 520 Techniques for Software Design, 5:30 p.m. Wednesday, will be offered at BNL.

Other courses for part-time graduates are available on a late afternoon and evening schedule at the Stony Brook and Farmingdale campuses. They include applied mathematics, industrial management, environmental engineering, computer science, and electrical engineering. A complete schedule is available at the Office of Academic Relations, Bldg. 460.

### HFBR

(Cont'd)

lation of the fluid in the reactor vessel if, in fact, there are no pumps in operation.

The HFBR operating pressure of 200 psi is maintained by a pressurized helium gas blanket located in the top of the reactor vessel. When the reactor is operating, this cover gas is circulated continuously through a shielded loop which contains a deuterium recombiner for the recombination to water of any deuterium gas (an isotope of hydrogen) which may be released in the reactor core area. In addition, the control provided by this cover gas system assures that no bubble can form which could interfere with the proper cooling of the reactor core.

The secondary cooling system used to remove the heat from the HFBR pumps water through heat exchangers in the reactor building. Here the heat is transferred to the secondary system which carries it to the cooling towers for evaporative cooling. A power reactor is cooled ultimately by the boiling of water to form steam and the use of the steam to generate electrical power.



Dorian Wind Quintet

## Quintet To Perform At BNL

The Dorian Wind Quintet, considered by many to be the world's pre-eminent wind ensemble, will appear in Berkner Hall on Friday, April 20 at 8:30 p.m. The program will include Beethoven's Quintet in E Flat Major, Opus 4; Opus Number Zoo: Children's Play for Wind Quintet, by Luciano Berio; Summer Music for Woodwind Quintet by Samuel Barber; Handel's Trio Sonata in G Minor and Trois Pièces Brèves by Jacques Ibert.

Organized 18 years ago during a summer season at the Berkshire Music Center, the Quintet inspired Aaron Copeland to describe it as "an outstanding group of young instrumentalists. . . Tanglewood was highlighted by their performances."

In 1961, the Quintet made its New York debut in a sold-out performance and received critical acclaim from the press. They

are a group of "superb young instrumentalists who are gifted, musical and up-to-date," commented a New York Times reviewer, "their program was fresh and vital in the most exciting way."

During their debut tour of Europe, London's Daily Telegraph reported, "these outstanding, talented players offered an unusually compact and blended tone, immaculate ensemble and an enterprising choice of 20th century music. . ."

The Quintet has frequently appeared in the United States, Europe and Canada, and had made a three-and-a-half month tour of Africa for the U.S. State Department.

Tickets for the April 20 concert are \$4 for general admission, \$2 for students and those over 65, and \$1 for those under 18.

## Tutorial Classes Aid Employees

The Technician Tutorial classes offer on-site, remedial instruction in basic mathematics and science. The classes prepare some employees to continue their education by taking college or technical school courses. Instructions in practical arithmetic and algebra are conducted by BNL consultant LeRoy Jefferson.

Employees at any level of preparation are accepted in the practical arithmetic class. Instructions in basic arithmetic, geometry, measurements, conversion, the metric system and the use of small calculators are given. These classes attempt to prepare students for more advanced work while enabling them to acquire skills that might be useful in their regular work.

Gladys Mack, a draftsman in the Accelerator Department, began the General Technical Correspondence Course while at the same time, continuing the Technician Tutorial program. Called "a rather difficult course" by Jefferson, the correspondence course acquaints a technician-in-training with basic mathematics, physics, chemistry, electricity and blueprint reading. Gladys is the only BNL employee to date who has completed this course.

A resident of Riverhead who has been at BNL for six years, Gladys is taking no courses right now, but plans to continue her education in the future. She feels the principles of physics and electricity which she learned in the correspondence course will help her realize her ambition. "I plan to someday, invent something - don't ask me what," she said. "If a student wants to complete the correspondence course," Gladys commented, "the Technical Tutorial classes help a great deal."

Although she found parts of the correspondence course difficult, one of the benefits of completing it (and the Technician Tutorial course) was "finding out you can do what you put your mind to. I would do it all over again."

The Technician Tutorial classes conduct two math courses at the entry level. One class meets weekly in the afternoon and, for those unable to meet then, a class is also held weekly at noon. Both classes are assigned homework.

High school and some college texts are used for the tutorial classes to acquaint students with more advanced presentations of algebra and fundamental trigonometry.



Gladys Mack, who completed both the Technician Tutorial classes and the General Technical Correspondence Course.

—photo by Humphrey

Also, an elementary physics course and a course in programming have been conducted by a BNL staff member. Among other topics, the physics course covered vectors, motion, temperature and Newton's Laws. It enabled several employees to take and complete courses in college physics.

Employees interested in enrolling in the Technician Tutorial classes should call LeRoy Jefferson on Tuesdays and Wednesdays at Ext. 2527 or Robert D'Angio at Ext. 2878.

## Arrivals & Departures

### Arrivals

<b>Kenji Horii</b> .....	Accelerator
<b>Tohru Inoue</b> .....	Medical
<b>Francis X. Karl</b> .....	Accelerator
<b>Shoji Okumura</b> .....	Accelerator
<b>William S. Rogers</b> .....	Energy & Env.
<b>Edmond J.L. Schouler</b> .....	Energy & Env.
<b>Peter Z. Takacs</b> .....	Biology
<b>John Tighe</b> .....	Fiscal

### Departures

<b>Rozalia Kemeny</b> .....	Reactor
<b>Alexander C. Pittman</b> .....	Safety & Env. Prot.
<b>Jay H. Schwam</b> .....	Energy & Env.
<b>Paul Thompson</b> .....	Chemistry

## Cancer Therapy

(Cont'd)

ments, and each patient will be tested several times.

Data obtained from 280 healthy men and women volunteers will be used to determine the body composition of normal individuals, as a function of age, sex and size.

The group is seeking healthy volunteers from both on and off-site to take part in the study, said Cohn. Men, and women who are not pregnant, between the ages of 20 and 90 are needed. Procedures for volunteering and selection criteria will be distributed to Laboratory employees in the near future.

## Service Awards

The following employees will receive service awards during the month of April.

### Twenty-Five Years

<b>Stanley J. Majeski</b> .....	Energy & Env.
<b>Joseph M. Scheliga</b> .....	Physics
<b>Patricia E. Towey</b> .....	Energy & Env.
<b>Joseph H. Whelan</b> .....	Plant Engrg.

### Twenty Years

<b>Donald A. Davis</b> .....	Accelerator
<b>Dennis D. Greenberg</b> .....	Medical
<b>Norwood E. Greenlaw</b> .....	Instr.
<b>John W. Halada</b> .....	Central Shops
<b>Alvin F. Heylmann</b> .....	Chemistry
<b>Malvina P. Krupski</b> .....	Safety & Env. Prot.
<b>Martin S. Zucker</b> .....	Nuclear Energy

### Ten Years

<b>Bernadette Fox</b> .....	Adm. Sys. & Data Proc.
<b>Arthur F. Gremillion, Jr.</b> .....	Medical
<b>Georgia L. Irving</b> .....	Energy & Env.
<b>Cornelius Jackson</b> .....	Photog. & GA
<b>Eulyne D. Turner</b> .....	Fiscal

## Selected Reading

Nature 278, March 22, 1979

Einstein: Disagreement delays publication of collected works. D. Dickson. 294-5

New Sci. 81, March 22, 1979

Growing pains of the soft machines. G. Kewney. 938-41

Oceans 12, March-April 1979

Mariculture. 8-56

Science 203, March 30, 1979

Biogeography and adaptation. D.S. Woodruff. 1333

## Cafeteria Menu

### Week Ending April 20, 1979

#### Monday, April 16

Corn chowder	(cup)	.30
	(bowl)	.40
Hungarian goulash		1.40
w/buttered noodles		1.15
Scrambled eggs, sausage & fr. fr.		1.30
Hot Deli - Turkey	(on bread)	1.40
	(on roll)	1.40

#### Tuesday, April 17

Beef noodle soup	(cup)	.30
	(bowl)	.40
Knockwurst & sauerkraut		1.25
Roast chicken w/stuffing & 1 veg.		1.30
Hot Deli - Veal and peppers hero		1.30

#### Wednesday, April 18

Cream of potato soup	(cup)	.30
	(bowl)	.40
Braised meatballs à la mode		1.30
w/buttered noodles		1.35
Broiled filet w/fr. fr.		1.30
Hot Deli - Roast beef	(on bread)	1.30
	(on roll)	1.40

#### Thursday, April 19

Chicken vegetable soup	(cup)	.30
	(bowl)	.40
Cheese ravioli & 1 veg.		1.10
Sauerbraten & potato pancake		1.45
Hot Deli - Grilled Reuben		1.30

#### Friday, April 20

Fish chowder	(cup)	.40
	(bowl)	.50
Spaghetti w/clam sauce		1.15
Breaded pork chop & 1 veg.		1.50
Hot Deli - Smoked		1.30
baked ham	(on bread)	1.30
	(on roll)	1.40

- SAGA FOODS -

## Answers to last week's puzzle

O	L	E	A	N	T	O	R	E	S	A	S	H		
N	I	T	R	O	T	O	P	E	C	A	R	N	E	
C	O	N	C	R	E	T	E	P	O	L	Y	M	E	R
E	N	A	T	R	O	N	E	S	S	E	S			
			S	H	I	E	R		B	O	O			
T	O	P	T	E	N	E	B	O	N	A	L	A		
I	C	I	E	R	S	C	A	M	N	J	U	I	T	
G	R	E	E	N	P	O	R	T	B	R	I	D	G	E
E	A	R	L	I	R	O	S	E	D	I	N	A		
R	T	S	A	N	T	I	M	A	R	T	I	N		
			W	H	Y	T	R	A	D	E				
A	L	O	H	A		M	O	T	O	A	B	E		
B	E	N	I	S	E	D	E	W	H	U	G	H	E	S
I	N	I	T		N	I	N	E		T	O	O	L	S
N	O	T	E		V	E	T	S		S	T	Y	L	E

# BROOKHAVEN BULLETIN

Published weekly for the employees of  
BROOKHAVEN NATIONAL LABORATORY

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CARL R. THIEN, Public Relations Officer

## Bridge Tournament

The Duplicate Bridge tournament will be held on Thursday, April 19, 1979 at 7:15 p.m. Entrance fee is \$1. All are welcome. ACBL members with more than 20 master points are not encouraged to participate, but are not barred, especially if playing with less experienced partners.

### Prizes

- 1st Two Tickets to the Cricket Ball
- 2nd Two BNL/AUI Jackets
- 3rd Bridge Books
- 4th Two BERA Cookbooks
- 5th Free Admission to Bridge Games for Two Months

Last week's winning partners were F.W. Ascolese (Isabelle) and Gene Kersney (Bellport). For further information call Bharat Bhatt, Ext. 2966 or Colin Durston, Ext. 2598.

## Volleyball

### Division A

On April 2, the Popovers popped over Lookin' Good: 9-15, 15-4, 15-12. Nuts & Bolts shone over the Diamonds: 15-13, 15-4, 15-7. No Names over Family Affair: 13-15, 15-8, 15-2. Oceanography took all three from Nuclods: 15-6, 15-3, 15-5.

### Standings

Oceanography	15- 0
No Names	13- 2
Nuts & Bolts	9- 6
Lookin' Good	6- 9
Popovers	5-10
Diamonds	4-11
Family Affair	2-13

### Division B

LeMufs swept the Wisas: 15-6, 15-12, 15-11. Balls & Strikes took over the Leftovers: 15-3, 15-12, 15-5. Nads over Medical by Forfeit.

### Standings

Leftovers	11- 4
Balls & Strikes	10- 2
Nads	8- 4
LeMufs	6- 9
Medical	3- 9
Wisa's	1-11

### Employees' League

On April 4, the Bumps took all three from Cool Tools: 21-4, 21-12, 21-8. Spikers swept Phoenix: 21-5, 21-18, 21-13. Toga vs Atom Spikers: Forfeit.

### Final Standings

Second Half		
Bumps*	25	5 .833
Spikers	23	7 .767
Toga	19	11 .633
Phoenix	10	17 .370
Cool Tools	6	24 .200
Atom Spikers	4	23 .148

\*Second Half Champions

### 1979 Employees' League All-Star

#### First Team

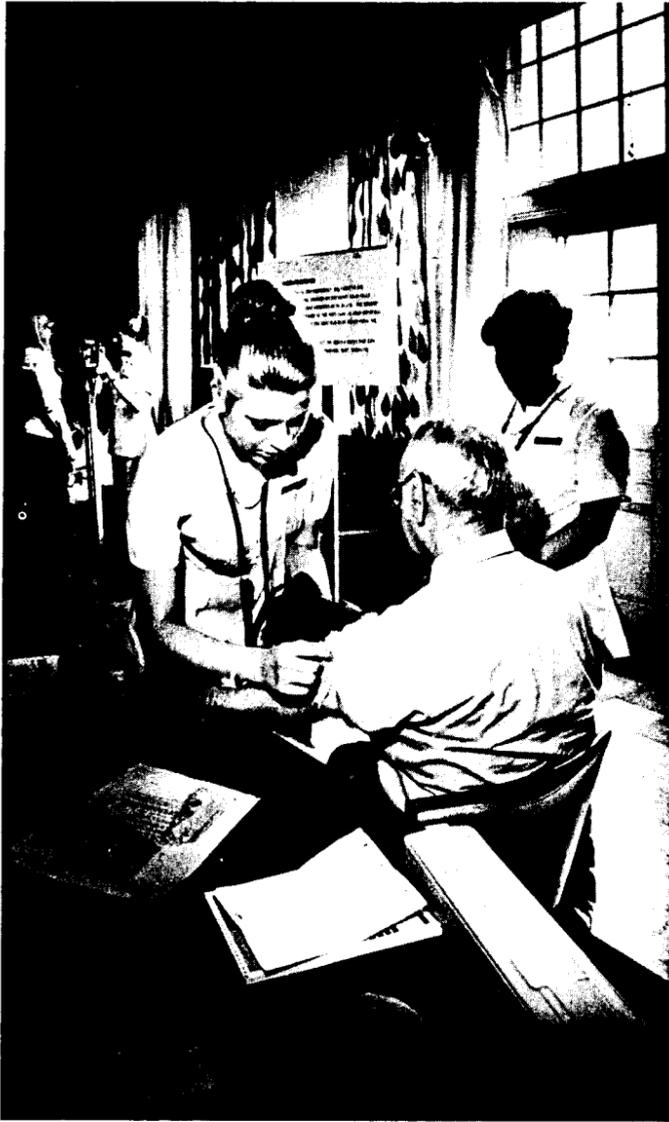
Tony Beck } Co-Captains  
John Usher }  
Tom Petty  
Steve Munson  
Tom Owens  
Jim Rowehl  
Walt Reams

#### Also Chosen

Lew Snead Kristen Chung  
John Millener Carolyn Hench  
Steve Howe Gerry Levine  
Bob Casey Chuck Calef  
Jean Burt Bill Kropp  
Mike Dagg Frank Stubblefield

All-Star Game - April 18, 1979.

Have you checked your car's wheel alignment lately? Improper front wheel toe-in alignment can cost you as much as three-tenths of a mile per gallon.



## Health Fair

Over 400 people took advantage of the free health screenings at the two-day Health Fair held at the Brookhaven Center last week. In addition to making the Center available, the Laboratory supplied publicity, tables, chairs and other equipment, and BNL personnel were on hand to see that everything ran smoothly. The screenings for a variety of health problems were conducted by the South Brookhaven Health Center and Brookhaven Memorial Hospital. The fair was sponsored by WNBC-TV, the American Red Cross and the National Health Screening Council.

—photo by  
Humphrey

## Teachers Wanted

The Upton Nursery School invites applications for two teachers. One position is for a class of three year olds which meets on Tuesday and Thursday mornings; the other is for a Monday-Wednesday-Friday class of four years olds. Apply in writing, before April 23, to Box 324, Upton, NY 11973.

## Great Adventure Tkts.

Great Adventure discount tickets are now being sold in the BERA Sales & Services Office at the cafeteria.

The value of each combination Amusement Park and Safari ticket is \$12.55, tax included, and is being offered to all on-site employees for \$10.50.

Tickets may be used on any day during the 1979 season.

## Bowling

### Gold League

Fission is in the first place by two points followed very closely by the Personnelities. Good games were bowled by Kay Hunt 141/154, Marsha Kipperman 156/174, Kay Sherry 156/161, Betty Jellett 173, Lynn Boyd 169, Kay Conkling 155/150 and Elaine Liguori 143/140/143. Mention should be made of Kay Conkling's 175/140/180-495 series during last week's bowling. Also noteworthy are Ruth Cohen (164/157) and Bella White who bowled 3 games over her average.

### Pink League

Marie Grahn with her 161/191/473 (high triple for the night) and Pat Castleman with her 186 game (76 pins over average) made it possible for the Lickety Splits to take five and increase their lead to six points. Other good games were bowled by Mary Grace Meier 192, Barbara Cochrane 180, Helen Keeley 175, Millie Connelly 173 and by Ellie Kristiansen 173. Honorable mention to Ann Parrinello for a 144 (45 pins over average).

### Red League

The 76'ers had a great night (3007 pins) and took 11 from the Sparks. R. Larsen had a 226/212/616/652, J. Connelly 212/585/633 and J. Morris 202/567/612. The Freon Loaders won 8-3 over the Blue Jays. F. Powers grossed 631, F. Stahman 615 and R. Marlow 605.

The Old Timers split 6-5 with This Is Team. R. Barberich had a 233/547/607 series. The Sandbaggers were skunked 0-11 by the Old Timers II. The Designers took 3

## A Pitch... For The Cricket Ball

Tickets for the 3rd Annual Cricket Ball are going wiki-wiki, so if you don't buy yours soon, you can kiss them aloha until keia makahiki a'e. At \$9 per person, they are available from the stations announced in last week's *Bulletin*, and will also be sold during lunch time at the Cafeteria next week. Join in an "Escape to Paradise" at the Brookhaven Center on Saturday, April 28. In the tradition of the Cricket Ball, an evening of superior entertainment is promised; Hawaiian dance band, hula and fire/sword dancers. There will be an open bar, and hors d'oeuvres served.



in a match with the Trouble Shooters. D. Hayslip had a 553/652 series. J. Ferrero grossed 622 pins. The Anachems took 3 in a match with the Dyno-Mites. T. Prach had a 205. With four nights of bowling left, the 6th place team is only 9 points out of first place.

### Green League

The Old Timers II gained on their first place spot as they shut out the Sandbaggers for 11. For the Old Timers II, G. Fales had a 212. The Blue Jays in second could only come up with 3 as the Freon Loaders took them for 8. For the Blue Jays, N. Parrinello had a 200 and D. Stelmaschuk a 200. The Pinball Wizards moved into third as they took 11 from the Cosmos. The Trouble Shooters took 8 from the Designers. The Sparks got bombed for 11 by the 76'ers while the Dyno-Mites took 8 from the Anachems. Bill Sells had a 210.

### Purple & White League

The Drafts remain in first place with the Pacers and Portsiders Plus 1 tied for second. High games were bowled by Jim Griffin 233 and by Grace Kyhl 200. Jim Griffin (567) and Caryl Mac Dougall (540) had high series. Other good games were bowled by Marshall Bull 219, Ted Erickson 207, Ed Meier 207, Carl Murray 205, Ken Riker 202/172/188-562 series, Joe Mayeski 201, Nancy Erickson 188, Kay Conkling 184/176, Betty Jellett 181, Maryjane Gillette 178 and Irene Sperry 176/172. Maryjane Gillette converted the 6/7 split.

Good games from the prior week were bowled by Ken Asselta 225, Fred VanDervoort 215, Rick Murgatroyd 199/201-568 series, Jim Petro 194/209-579 series.

## 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.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific 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, as indicated below. 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:** Opportunity for present Laboratory employees.

963. HEAVY EQUIPMENT MECHANIC OPERATOR, GROUP LEADER - Temporary, (4/23/79 to 9/30/79). Plant Engineering Division.

964. LABORER (six positions) - Temporary, (5/21/79 to 9/14/79). Plant Engineering Division.

965. LAUNDRY OPERATOR A (two positions - Temporary, (5/21/79 to 9/30/79). Plant Engineering Division.

**OPEN RECRUITMENT:** Opportunity for present Laboratory employees and outside applicants.

966. STEAMFITTER A - Temporary, (3/21/79 to 9/14/79). Requires ability to lay out, construct, install repair and maintain heat, steam, and water distributor systems. Experience in welding (gas, electric) and burning essential. Plant Engineering Division.

967. PLUMBER A - Temporary, (5/21/79 to 9/14/79). Requires ability to lay out, construct, install, repair and maintain water, sewage and gas systems. Must have proficiency in working with glass, aluminum, monel, PVC, and tubing systems. Plant Engineering Division.

### Autos & Auto Supplies

68 CHEVY - Impala SS, 3 spd, A/T, new brakes, exhaust, valve lift. Good cond. \$400. Ext. 4219.

69 FORD PICKUP - 3/4 ton, w/utility bins; 66 Ford Econoline van. 698-3591.

76 DATSUN B210 - good cond, radio. \$2500. Ext. 4207, 981-5898 after 5.

78 KTM MCS - dirt bike, 250 cc, 5 mo old, like new, Fox air shocks, air forks, many extras. Oscar, Ext. 2311, 325-9580.

76 DODGE DART SPORT - 6 cyl, 4 spd, r/h, good gas almost perf. \$2750. 286-9584.

MOTORCYCLE - 71 Honda 350 CL, custom seat, custom metal flake paint, low mi, w/helmet. \$450. Dan, Ext. 4636.

69 VW BUS - body good, needs eng work. Best offer. Jim, 475-6954 eves.

71 CHEV BLAZER - new clutch, spoke wheels, 11:15 tires. Best offer. Tony, Ext. 4100, 288-3535.

78 PONTIAC PHOENIX - hatchback, a/t, V6, a/c, ps/pb, AM/FM/8-track, radials, more, showrm cond. \$4750. Dick, Ext. 3860.

75 FORD ELITE - 43,000 mi, fully equipped, posi, extra snows, excel cond, orig owner, immaculate. \$3200. Ext. 4301.

78 PONTIAC LEMANS - 2 dr, a/t, ps/pb, a/c, AM/FM, like new. \$4800 or best offer. Ext. 3112/7793.

69 LINCOLN - 4 dr, mech & body very good, needs minor work. \$495. Rick, 727-7304.

74 DODGE PWR WAGON PICKUP - 4 w/d, a/t, ps/pb, w/cap. \$3300. Norton, 475-5834 after 6.

1 TIRE & RIM - 4 lugs, for trailer, 5.70x500x8, 6 ply rating. \$25, or even trade for 1 tire & rim, 4 lugs, 4.80x400x8. Steve, Ext. 2350, 585-8395.

77 KTM GS6 - 175 cc dirt bike, eng totally rebuilt by Portchester Cycle, Reed valve, no time on eng. Oscar, Ext. 2311, 325-9580.

77 TOYOTA COROLLA - gas saver, 1200 cc, 5 spd, radials, AM/FM, snows. \$2995. W. McManus, Ext. 2022.

NEW & USED TIRES - rims, repairs, mag wheel service, reg, radial, Dunlop-Gillette, free instal, balance avail. Fred Usack. 4798 lunchtime, 475-4935 eves.

74 COMET - 2 dr, 6 cyl, p/s, a/t, new tires, low mi, excel cond, economical to run. \$1950. 283-6338 after 4.

78 CAMARO - T roof, a/c, low mi, excel cond. \$6200. 369-1582.

72 BLAZER K5 - 4 w/d, ps/pb, AM/FM/8-track, excel cond, Cheyenne pkg. \$3500. 472-0251.

71 FURY III - new brakes, water pump, alt, batt, exhaust sys, 7 good tires on rims, recent inspection. \$600. Steve, Ext. 4068, 473-4982.

TIRES - brand new JC Penny 165x13/6.45x13 belted w/4-hole rim, non-radial. \$15. Dick, Ext. 7635.

72 HONDA 350 CB - excel cond. 732-6678.

73 CHEVY 3/4 TON PICKUP - 4 w/d, util body, many extras. \$5000. Paul, Ext. 2023, 727-1464.

CHROME REVERSE WHEELS - 11.00x15 Cragar, 6 hole, Gillette all-terrain tires. Best offer. Tony, Ext. 2023.

74 DATSUN B210 - 50,000 mi, snows, AM/FM, excel cond. \$1800. Maureen, Ext. 7791, 744-7247.

AM/FM PUSHBUTTON RADIO - fits most cars. \$20. Jack, Ext. 4255, 289-6708.

69 PONTIAC STATION WAGON - excel cond. \$850. Jeb, Ext. 4088, 286-0204.

CAMPER CAP - 8', w/insert incl 2 bunks, table, sink, stove, ice box, self-cont, excel cond. \$600 or best offer. 929-8105.

73 CHEV SUBURBAN - V8, good cond, extras. \$2700. Ron, 475-3918.

TIRE - 8.55x14, never used. \$20. Tony, Ext. 3658.

74 FIAT 124 STATION WAGON - excel running cond, new valves, str motor, brakes, more. \$1000. Fiarman, Ext. 2925.

77 PLYMOUTH VOLARE STATION WAGON - 6 cyl, std-overdrive, good mi, CB/FM/stereo, new tires. \$3400. O. Jones, Ext. 2599, 821-0599.

73 PONTIAC LEMANS - white, 2 dr, ps/pb, AM/FM stereo cassette, 54,000 mi, good cond. \$1300. 345-3079 eves.

74 CHEVY MONTE CARLO - a/t, ps/pb, a/c, radials, pinstripe, brown w/white landau, custom mags. \$2900. Frank, Ext. 3898.

SHOP MANUAL - for 63-64 Pontiac. Palais, Ext. 2907, 698-0576.

TIRES - mostly for spares, E70-14, 7.50x14 w/rim, D78-14, E78-14. Prices \$3 - \$10. Rich, Ext. 4172.

67 DUNE BUGGY - 12V, excel running cond, low bar, roll cage, must see. \$450 firm. Rich, 286-1456.

8-TRACK - auto radio cartridge player, \$15; Audiovox FM converter, \$10; AM radio for Pinto, \$15, or trade for car cassette player. Alan, Ext. 2928, 821-0761.

76 PLY SCAMP - 40,000, a/t, slant 6 gas saver. Lawrence, Ext. 4107, 472-0721.

69 FORD LTD WAGON - \$300 - Neil, Ext. 2023.

76 DODGE CHARGER DATONA - fully loaded, radials. 724-2627.

76 MONTE CARLO - p/w, a/c, t/s, new tune-up, belts, batt, stereo, snows, excel cond. Asking \$4200, must sell. John, 281-3238.

AUTO MANUALS - 75 Olds service & body manuals (2 vols). \$10. George, Ext. 4769.

78 CHEVY VAN SEAT - tan & brown, w/yellow check design, never used. \$50. John, 924-6733.

75 FORD TORINO STATION WAGON - excel cond, ps/pb, a/c, V8, low mi. \$3300. Ron, 475-3918.

STEEL BELTED RADIAL TIRES - (2) 175SR13 mounted on Chevy 4 bolt rims. \$65. Sue, Ext. 2050.

68 CHEVY CAPRICE - station wagon, ps/pb. \$275. 744-6362.

## Boats & Marine Supplies

1976 MAKO - 19', 85 hp Evinrude, Sea Lion trailer, Like new. \$5000. Andy, 289-1755.

20 HP OUTBOARD MOTOR - 1978, used 1 hr, still under guarantee. B. Pollock, 286-0626.

18' RHODES SAILBOAT - fiberglass, trailer, sails, motor, very good cond, priced to sell. 286-9584.

22' MAKO 1973 - 135 hp Evinrude pwr tilt sst prop, spray dager, console cover, CB, DF, CG equip. 661-9155.

25' BECKER - Chrysler inboard. \$950. Bill, 744-8999.

16' WOOD SKIFF - nice lines, built '77, used 1 season, 25 hp Evinrude. \$800. 286-3509, 286-8542.

17' CRUISERS INC 1973 - 65 hp Johnson, Cox trailer, elec winch, excel. Asking \$3000. 281-0804.

31' ULRICHSON - FB, sleeps 6, DF, CB, full canvas & extras, 233 hp Gray marine-rebuilt 1977 incl manifold, exhaust risers, good family cruiser. 499-1989.

13' BOAT & TRAILER - boat free, trailer \$75. Bob, Ext. 3309.

24' SUMMERCRAFT - fiberglass over wood, BD, 6 cyl inboard eng, 4 yrs old, w/hardtop, sleeps 4, excel cond. \$1500. Tom, Ext. 4507/4084.

11' MOTH CLASS SAILBOAT - wood covered fiberglass, 1 main. Asking \$300. 289-0925.

25 HP JOHNSON 1977 - never used. \$575. Don, Ext. 3397, 289-0265.

HOBIE 18 - sail #282, trailer & access, rarely sailed. \$3700. Ext. 4650.

FISHING CHAIR - deck mounted, white, like new. \$80. Lou, Ext. 4687.

20½' WESTWIND BOAT - 1969, fiberglass, sleeps 2, navy top, head, 100 hp Johnson outboard, Holsclaw trailer & tandem wheels. \$1800. 928-6680.

28 HP EVINRUDE LONG SHAFT - 1968. \$150. Bob, Ext. 3309, 289-1568 after 6.

## Miscellaneous

BOYS' SPORT JACKET - sz 16, blue, white & yellow check plaid, \$5; girls' dresses, like new, sizes 8, 10 & 12, \$3, \$4, & \$5. 475-7272 after 6.

15' SCOTTY TRAILER - a/c, stove, refrig, heater, toilet, sleeps 5, 12vdc/115vac, good cond. \$1000. Pete, Ext. 3868, 878-1225.

REDWOOD PLANTER - 8" deep, 13" diam, rolling plant stand, both unused, \$5 ea; 20" window fan, \$15. Connie, Ext. 2263.

REDWOOD FURN - 39" round table, 1 curved bench, 1 arm chair. \$45. Rose, 423-4472 after 4.

ANTENNA TOWER - Rohn 25G, 30', Hy-gain TH-3 Jr, Ham II, all like new. Tom, 929-6646.

SIMMONS HIDE-A-BED - 1 yr old, off-white, perf cond. 286-0866.

ELEC DRYER - Westinghouse, good cond. \$75. Tony, Ext. 4100, 288-3535.

BICYCLE - boy's 20" wheels, coaster brake. \$15. David, Ext. 7730, 286-8097.

19" B/W TV - excel cond, must sell. \$50. Ext. 3076.

DIGITAL CLOCK RADIO - AM/FM, \$10; carpet, \$7; hair dryer, \$10. Ext. 3112.

COLOR TV - Zenith 21" remote control, needs work. 698-3856.

SHOPSMITH MULTI-TOOL - drill press, table saw, lathe, sander, boring mach, good cond. \$275. 727-4859.

24' ROUND POOL - s/s filter, new motor, vacuum, lounge, skimmer, 2 ladders. \$400. Norman, Ext. 2043, 472-3985.

MC GREGGOR FOOTBALL SPIKES - brand new, size 7. \$15 w/4 Cheerios box tops. Norm, Ext. 4415.

METAL LATHE - Sears, 6" swing, drill chuck, 18" bed, \$75. Sue, Ext. 2050.

YOUNG MONGOLIAN GERBILS - hand tamed & gentle. \$1 ea. 744-0354.

WASHING MACHINE - Whirlpool, white, 18 lbs, 1 yr old, \$175; air cond, 6000 BTU, \$50. Pat or Kat, 698-7306.

CERAMIC KILN - Skutt model 231-18, new; United upright freezer, approx 27 cu ft; accordion, "Crucianelli," made in Italy. Antoinette, 821-0832.

LOCKE LAWNMOWER - 68" reel type, excel cond. \$600. 653-4632 eves.

SHALLOT "SETS" - ½ lb/\$1; Sunbeam elec can opener, \$10; portable typewriter, \$35; water purifier, \$35. Ext. 3655, 281-2002.

LABRADOR RETRIEVER PUPS - AKC, yellows & blacks, Field, Show, Champion line, pet priced. 744-4779.

FREEZER - 16 cu ft upright. \$200. Lydia, 475-7500 days, 929-6753 eves.

DBL WINDOW - 67½"x38½". \$125. Bob, Ext. 3309, 289-1568 after 6.

MELNOR TRAVEL SPRINKLER - \$5; Reo reel mower, \$25; ice chest, \$5; toilet bowl & tank, \$15; contour chair, \$5. Palais, Ext. 2913, 698-0576.

BOY'S SUIT - navy jacket, grey slacks, size 8. \$10. Terry, Ext. 2945, 744-4594.

MINOLTA 660XL - super 8 sound camera w/zoom mike, \$225; Elmo ST-1200 super 8 sound projector w/mike, \$250; both used 3 times; \$400/both. Klein, 298-8805.

RECLINER ROCKER - \$35; bench plane, \$5; off chair, \$25; mandolin strings, 50¢ ea. Susan, Ext. 4207.

SURF POLE - 9' Diawia w/reel, \$40; child's auto seat, \$5; B&D lawnmower, \$75. 475-0144.

CONN ELEC BAND - excel cond, auto rhythm & chords, many voices, easy to play. \$450. Ext. 4601.

TURNTABLE - Dual 1215S, 3 spd, wood base, dust-cover, new cable, no cartridge. \$55. Gail, Ext. 2901.

WET SUIT - ladies' med long johns & top, used twice. \$75. Melissa, 286-0939.

4 DBL HUNG SASH & FRAMES - alum, for masonry walls, 37¼"x 41" h, can be adapted to wood frame structure. \$15 ea, 4/\$55. Pat, Ext. 4519.

FREE - child's steel swing set, usable but needs work. Ext. 3811, 744-4789.

ELEC STOVE - 4 burner, 21" w x 25" d, like new. \$60. John, 924-6733.

GRAVELY - 8 hp, sickle bar, plow, roto-tiller, rotary plow, rotary mower. \$175. AN1-0314 after 6.

SPRING SALE - 130 lb bar bell set; telescope; hockey skates, size 7; Polaroid Swinger camera; AM/FM/CB radio. Mary, Ext. 4132.

SPEAKERS - 2 Cerwin Vega (26B); 2 Martin Super Max II Dual 1218 + dustcover, \$200; king sized H2O bed, matt, liner, heater, Kuss, \$90. Bill, Ext. 3369, 929-6442 after 6.

PEREN PHLOX - hosta funkia, red canna, blk pine, evergreens, forsythia & more. Irene, 589-6468 eves.

BABY CRIB - matt & bumpers incl. \$25. 744-4386.

ACCOUSTIC GUITAR - Ibanez 12 string, 2 mos old, excel cond, \$215; Danish mod buffet, 5'1 x 36" w, walnut wood, \$150 firm. 277-4091.

PA-COLUMNS - (2) w/2-12" spkrs in ea, excel cond. \$100. Charlie, Ext. 3950.

SEWING MACHINE - Sears-Kenmore w/auto-stitch cams, enclosed in its own sewing table, hides away, excel cond. \$200. Louise, Ext. 3617.

CRAFTSMAN ROUTER CASE - new, catalog price \$12.89. Will sell for \$7.50. Bill, Ext. 2378.

CHIHUAHUA - AKC lovable males & females, 4 mos, inoculated, paper trained. Nina S. 473-6432.

AMERIGO TRUCK CAMPER - 11', self-cont, roof rack. \$3500. Paul, Ext. 2023, 727-1464.

2 LAMPS - wood & brass (med), \$75/pr; matching wood (w/drawer) end tables, \$125/pr; perf cond. 589-0461 after 6.

TABLES - din table, 20" w closed, open seats 8, \$75; gateleg table, \$45; library table, open seats 6, \$35; prices negotiable. 878-0184.

EVERGREEN FIR & SPRUCE TREES - fast growing, 30" to 36" tall, you dig. 2/\$7. 727-1617.

PANASONIC STEREO - 8-track tape recorder, play-back deck, works beautifully, good cond. \$65. 473-3064 after 5.

FREEZER - United upright, 30wx65hx26d, refinished. \$60. Terry, 499-8377.

FREE - 2 adorable female buff-colored puppies, mother sm beagle-pointer, father "traveling man." 281-7720.

POOL - 18' round x 4' deep w/ss filter, skimmer & att 3½' chain link safety fence, all disassembled. \$200 or best offer. 929-8105.

COFFEE & END TABLES - slate tops. \$100/pr. 281-0804.

KROHLER COUCH - red, excel cond. \$100. 473-7546 after 5.

BICYCLE - 24". \$20. Ext. 4395, 653-4195.

NEW CANON LENS - 24mm F2.8 w/skylight filter, case, hood. Orig \$200, asking \$150. Jim, 924-5257 after 5.

GREENHOUSE - quonset type, 22x100 ft, boiler, hanging plant watering system, spray mist system, lg fan & plastic heating duct. \$3000. Jim, Ext. 4040, 289-0876.

KITCHEN SALE - dish drainers, turtable, etc, excel cond, some brand new. \$1-\$2. S. Spark, Ext. 4111.

BOWLING SHOES - men's size 9, brand new, for right hand bowler. Don, Ext. 4346, 821-9125.

EVERGREENS - all sizes & prices, dig yourself or we dig. Jim, 286-0024.

TURNTABLE SPKRS - 2 Cerwin Vega 26B, 2 Martin Super Max II, 1 Dual 1218 & dust cover. Cost \$420, asking \$200. Bill, Ext. 3369.

## Real Estate

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

## For Sale

WADING RIVER - 3-4 bedrm cape, 2 baths, fp, 2½ car gar, on wooded acre, Shoreham-Wading River schools. \$59,000. 929-8377 after 6.

LAUREL - 7 yr old, 7 rm ranch on ½ acre, takes \$900, excel school district, beach rights, deck, fp, only 35 min from BNL. \$55,000. 298-4093.

ROCKY POINT - The Tides, 70' ranch on ½ acre, 3 bedrms, 2 full baths, L/R, D/R, den w/fp, eik, oal floors, full bsmt, gar, patio, ex schools, shopping, pr beach, assumable 6% mort. Otto, Ext. 4605, 744-6482

SHOREHAM NORTH - 3 bedrms, study, eik, ½ treed acre, deeded beach, fp, deck, fin bsmt, low taxes. 744-5801.

SHOREHAM NORTH - lg 4 bedrm Mediterranean style house, immaculate, acre land, prvt beach, extras. 744-2514.

BELLPORT VILLAGE SOUTH - recent colonial, 4 bedrms, 2½ baths, L/R, D/R, eik, fam rm w/fp, full bsmt, 2-car gar, usual appl. Ext. 7730, 286-8097.

ROCKY POINT - moving out of state, many extras, 4 bedrm colonial, eik, 2½ baths, fp, w/w, wood deck, ½ acre, prvt beach. 944-1156 eves, 944-8288 days.

CORAM - Tanglewood Hills, 6 rm cape, 2 car gar, L/R w/cathedral ceiling, 4/10 acre, fenced, SD #11, appl, gas heat. Reduced to \$33,500. Joan, Ext. 2249, 732-6421.

YAPHANK - 2 fam house, possible mother-daughter, dbl gar, extra storage building, many extras, reasonable, owner. 924-3397.

MORICHES - ½ acre property, wooded, prvt beach & marina w/ramp, excel location. \$16,500, terms avail. 878-1912 after 6.

PORT JEFF STA - 4/5 bedrm splanch, fam rm w/fp, 2½ baths, detached gar & ½, w/workshop, lg eik, re-insulated, partially fin bsmt, new stockade fence. \$36,500. Ron, Ext. 3162, 473-6862.

SHIRLEY - or rent w/option to buy, 3 bedrm ranch, L/R, D/R, den w/fp, ½ acre, att gar, patio, w/w, 5 appl, fin bsmt w/bath & prvt ent. \$31,000, will hold mtg & neg terms. 281-8016.

MASTIC BEACH - 3 bedrm long-line ranch, bsmt, excel cond, many extras, 7¼ or 1% mort (Farmer's Home), terms negotiable, immediate occupancy. 281-5498.

SOUTH SETAUKET - 5 bedrms, 2-car gar, 3 baths, gas heat, central a/c, many more extras, Three-Village School Dist. \$48,000. 698-1785 after 5:30.

BROOKHAVEN HAMLET - 3 bedrm ranch, att gar, fin bsmt w/bar & 2 fp, screened porch, new appl, beautifully landscaped, near bay. 212-472-6713 or 212-831-6157 after 6.

LAKE PANAMOKA - 3 bedrm ranch (corner), gar, W/N, 5 appl, lake rights. \$30,990. Lydia, 475-7500 days, 929-6753 eves.

MASTIC AREA - 4 bedrm, 2 bath cape, fp, den, full bsmt, w/w all rms, ¾ + acre, all fenced, 16x36 in-ground pool. \$43,000. 281-6855.

MILLER PLACE, NORTH - wooded, native laurel, rhododendron, custom ranch, 3 bedrms, gourmet kit, full bsmt, low taxes, energy efficient, easy maint. Assume 7½% mort, \$53,900. Spaulding, Ext. 2965, 473-3305.

RIDGE - 5 yr custom splanch, excel cond, 6 rms, ½ acre, treed, redwood fenced, slate redwood patio, 1½ car gar, low exist 7¾% mort. \$40,000. Pat, 924-0837 after 6.

SHOREHAM - custom built colonial, 4 bedrms, 2½ baths, eik, formal D/R, w/w, s/s, 2-car gar, full bsmt, many extras, 1 acre landscaped. \$56,000. 744-2821.

MASTIC BEACH - long-line ranch, 2 oversize bedrms, cabinet-lined kit, formal D/R, den, full bsmt, base-board heat, ¼ acre. \$27,000. 281-5498.

MEDFORD - 3 bedrms, fp, all mod conveniences. Joan, 286-2948.

SETAUKET - 3 bedrm, 2 bath, ranch lg eik, fp, central air, full bsmt, ½ acre w/harbor view, s/s, w/w carpet, \$78,000. Ric, Ext. 2266, 698-9210 eves.

## For Rent

POCONOS - chalet in prvt community near Lake Wallenpaupack, swimming, tennis, sleeps 5. \$175/wk. 289-2159.

MILLER PLACE - 4 bedrm furn house, for 1 yr, from June 15, date & price negotiable. Agrawal, Ext. 2618, 928-6032.

BELLPORT - 2 rms furn, lg bathrm, gar, in pleasant home. \$175, util incl. Ext. 3583.

SOUTH SETAUKET - rm for rent in lovely ranch home in exclusive area, a/c, kit priv, etc, tenant must be female & like pets; rm can be furn or unfurn. Ext. 2298, 736-2818.

SOUTH SETAUKET - rm for rent in lovely ranch home in exclusive area, a/c, kit priv, etc, tenant must be female & like pets; rm can be furn or unfurn. Ext. 2298, 736-2818.

## Wanted

TWO ROOMATES - to share neat digs in Moriches, 8 miles to Lab. Rent \$120 ea. Jack, Ext. 3433, or 331-9471.

SHARE W/WORKING MOTHER - teenage daughter, home south of S. Country Rd, Bellport. 286-3575 eves.

SM DINGHY - inexpensive. Ralph, Ext. 2368, 924-6654.

CONTRACTORS WHEELBARROW - must have pneumatic tire, any cond. Paul, 727-4859.

HOME - for 1 yr old male dog (neutered), Pointer mix, shots, house broken, trained. 369-2504.

METAL TRICYCLES - for young grandchildren to use at grandparents' home, willing to repaint. Mac, Ext. 4660.

KARMANN GHIA - early 70's, good cond, moderate price. Bill. 4100.

SM REFRIG FOR VAN - 115 v ac, 12 v dc, good cond. Foley, Ext. 3943.

GAS STOVE - reasonably priced. 281-8016.

MOTHER'S HELPER - 1 child, after school, all day when no school & summer, Wading River. Julie, Ext. 2942, 929-6460.

HOMES - for adorable Lab-mix puppies (M & F), blk & golden, avail approx May 1, mother purebred. Ext. 2880.

COLOR TV - ugly, working & cheap. Chris, Ext. 4612, 281-7379.

HOME - for cute, affectionate cat, daughter allergic, please save "Sam" from the ASPCA. 654-2093.

RIDING LAWNMOWER - Paul, Ext. 2023.

CANOPY - for twin bed. S. Fiarman, Ext. 2925.

PEOPLE - interested in taking 2-semester Organic Chem course (5 credit hrs/semester) at Suffolk CCC (eves) beginning Sept 79. K. Tuohy, Ext. 3632.

CAMERA - Mamiya RB67 PRO-S 6x7 SLR, lenses & accessories; also slide copier, light/color meter. O. Jones, Ext. 2599, 821-0599.

HOME - for quiet female cat, 6 yrs old, friendly, spayed, free. Ext. 3120.

TRAILER - for 19' sailboat, cheap. Roy, Ext. 4600.

TRAIL BIKE - 80-125 cc, 4 cycle preferred. J. Guthy, Ext. 4911, 929-8287.

HOUSE TO SIT FOR - in Bellport during Aug. Ext. 3583.

HOUSE TO RENT - Bellport-W. Hampton, immediately. D. Turner, M & F Ext. 3359 or (212) 636-1163.

ILLUSIONIST - or folk singer w/guitar for sweet 16 party. L. Belkin, Ext. 3268, 265-7696.

STOCKADE FENCING - or materials for making, needed for play yard, any cond, reasonable. Chris, Ext. 4612, 281-7379.

DISK SANDER - or polisher-sander. Jerry, Ext. 2934, 744-2816.

GM TODDLER CAR SEAT - Dan, Ext. 3145.

HOME - for spayed & altered cats & kittens, all shots; also homeless dog or will be destroyed. Joann, 744-2821.

INFANT "LOVE SEAT" - GM (safety shell). Also baby back pack in gd cond. Ext. 3480.

## Car Pools

E. NORTHPORT/ELWOOD - 4th & 5th driver needed. Steve, Ext. 4615.

BELLPORT - join or start car pool, Brookhaven/Bellport. Ext. 3583.

BROOKLYN HEIGHTS AREA - looking for existing car pool M & F.