

## "PAT" Cools ISABELLE Magnets

A large helium liquefier for cooling ISABELLE superconducting magnets operated successfully for its trial run during the week before Labor Day. The machine, which has been dubbed "PAT" for Production And Testing, is installed at the old Cosmotron Building which now serves as the ISABELLE magnet factory.

More than a thousand superconducting magnets will be built for ISABELLE. "PAT" will cool the production magnets to cryogenic temperature for evaluation of their performance prior to their installation in the ISABELLE tunnel.

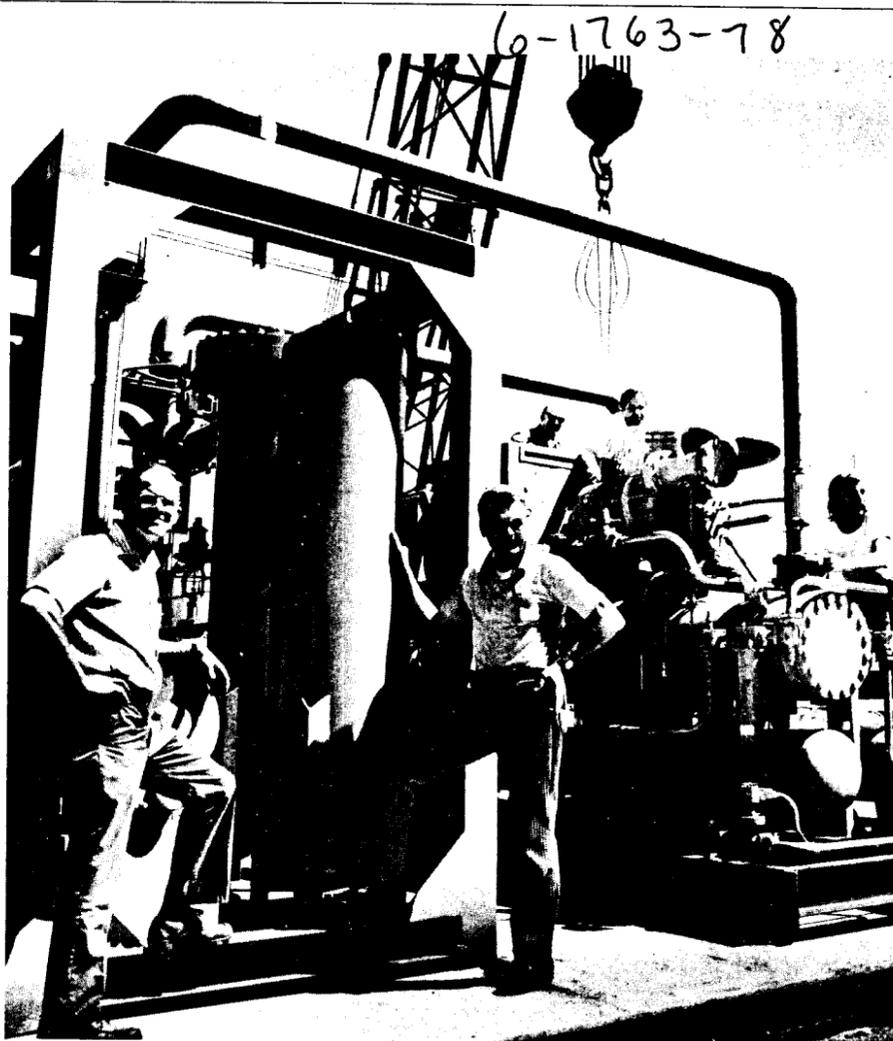
The liquefier and its automatic control system were constructed by the CVI Corporation in Columbus, Ohio. The refrigeration effect is produced by expanding pre-cooled helium gas through high speed turbines which extract work from the helium stream, thereby cooling it. The final expansion through a controlled orifice produces liquid helium, which is transferred through vacuum-jacketed piping to the magnet cryostats. The liquefier is capable of producing 250 liters liquid helium per hour. This corresponds to a cooling capacity in excess of 1000 watts at a temperature of 4.5 K.

Large, oil-lubricated screw compressors are used to supply the high pressure process helium gas to the refrigerator. Compression is done in two stages: the first stage uses two 200-horsepower compressors followed by the second stage 300-horsepower unit. These compressors, together with the helium purifiers, are installed remotely in a building north of Building 902's work area. Extensive pip-

ing, power and control cabling interconnect the entire facility, making it possible to operate and monitor the machine from one central point in Building 902. A two-story platform has been erected by BNL technicians and welders to provide easy access to all portions of the refrigerator.

In addition to ISABELLE Project personnel, many other groups and individuals did a major job in getting this project ready. BNL's Plant Engineering Division installed the compressor building and the required structural supports for the mechanical and electrical equipment. The heavy machinery was handled and set into place by BNL riggers; later, accurate alignment of compressors and motors was done by millwrights from the BNL Shops Division. Installation of the electrical power lines, transformers and disconnects was coordinated by the AGS power group. Water mains for compressor cooling were installed by BNL plumbers who tied into an existing cooling tower system which had once served the Cosmotron magnets. Long aluminum pipe runs for the process helium gas were connected by welders from the Shops Division. The piping had to be absolutely leak-tight and clean, since even a small amount of contaminant in the pure helium process gas could cause a machine shutdown.

The efforts and cooperation of many individuals at BNL, as well as the attention to detail and quality by the machine's builders, made it possible to achieve a successful run during PAT's first week of operation at Brookhaven. —J.A. Bamberger



The helium purifiers (left) and compressors (partially visible at right) for PAT are located north of Building 902's work area. Here, some members of the ISABELLE Project's Cryogenic Group pose with the equipment during construction. From left to right are Herb Hildebrand, Bill Adams, Dave Kipp, Frank Heimroth, and Bill DeJong. The purifiers and compressors were later enclosed in a building which was lowered into place by the crane in the background. —photo by Reben

## Davis Wins ACS Award

Raymond Davis, Jr., Senior chemist at BNL, is the 1979 winner of the American Chemical Society Award for Nuclear Applications in Chemistry, sponsored by G.D. Searle & Co. Announcement of the \$2,000 award was made September 11 at the Society's week-long national meeting in Miami Beach.

According to an ACS spokesman, "Dr. Davis' pioneering study of neutrinos, the massless particles which penetrate the earth, and his major accomplishment in measuring the flux of neutrinos from the sun are being honored with this award. The ACS award also notes his unique contributions to our knowledge about the way the sun produces energy, about particle fluxes of the solar wind, and about solar flares.

"Using an incredibly low background counting technique, Dr. Davis has performed one of the great observational experiments of our time. He has posed a challenge to astronomy, physics, and chemistry that certainly will lead to a better understanding of stellar structure and evolution, and may produce a fundamental change in our understanding of neutrinos. Moreover, his results put realistic limits on neutrino fluxes from extraterrestrial events such as supernovae, collapsing stars, and gravita-



Raymond Davis, Jr.

tional wave sources."

The ACS Award for Nuclear Applications in Chemistry will be presented to Dr. Davis at the American Chemical Society/Chemical Society of Japan Chemical Congress in Honolulu next April. The award was established in 1953 "to recognize, encourage, and stimulate isotopic applications in the field of chemistry."

## Edward O. Salant Dies Suddenly

Edward O. Salant, a member of the Physics Department for almost 20 years and a Guest Senior Physicist after his retirement in 1966, died suddenly at his home on Wednesday, September 13. He was 78.

Salant was born in New York on April 24, 1900. He received his B.A. from Columbia College in 1922 and his Ph.D. in Physical Chemistry from the University of London in 1924. He was a Johnston scholar at Johns Hopkins University from 1925-27.

He was a National Research Fellow (from 1927-29) and then Associate Professor of Physics (from 1929-41) at Washington Square College of New York University.

During World War II, Salant worked

with the Proximity Fuse Project, first at the Department of Terrestrial Magnetism, then at the Applied Physics Laboratory of Johns Hopkins. After D-Day, he joined the Alsos Mission, investigating enemy work in proximity fuses. For his work with proximity fuses, he was awarded the Order of the British Empire.

After the war, he divided his time between New York University and the Applied Physics Laboratory of Johns Hopkins, where he began research on flame spectra and on cosmic rays.

In 1947, Salant formed the Nuclear Interaction Group at Brookhaven National Laboratory. Since Brookhaven had no accelerators in those days, the Group used accelerators elsewhere for research in the

(continued on page 2)

## Phys Rev B Published By Computer

The Physical Review and Physical Review Letters publish much of the world's primary physics research, including many papers written by Brookhaven scientists. For the past year, the staff of the journals' editorial office, located in the Physics building, have undertaken an assessment of computer technology as a tool in producing typographically complex articles under actual production conditions. The new technology has the potential for producing journal articles faster, thereby reducing the time between the completion of a piece of research work and its appearance in print. Significant savings in publication costs are also possible.

As a measure of their success, the April 1, 1978 issue of Physical Review B, consisting of 29 papers, was completely photocomposed, thus demonstrating the technical feasibility of using this computer-assisted system.

The project, authorized by the Council of the American Physical Society, started in early 1977. It went into actual operation in April of that year with the publication of just one paper in Physical Review B. In the ensuing months, a total of 1500 pages from over 200 articles were produced under the direction of Peter Adams, Project Manager and Editor of Physical Review B, and Margaret Judd, Editorial Systems Manager.

The problems associated with the typesetting of a typical physics paper are considerably more complex than those handled by conventional word processing systems. In particular, mathematical expressions contain a large variety of symbols, often in differing point sizes, and almost always contain subscripts and superscripts to yet other characters. The computer programs required to direct a photocomposer to set the proper character in its proper place relative to others in a mathematical expression are extremely complicated. The following example is illustrative of the problem:

$$\int_{\tau_1}^{\tau_0^{(v)}} d\hat{\tau} \frac{\rho_0}{\hat{\tau}\beta_1\beta_{\tau_1}} \frac{d\beta_{\hat{\tau}}}{d\hat{\tau}} = -\frac{\rho_0 v}{\beta_1} \beta_{\tau_1} (\tau_1^2 K_{\tau_1} \pi)^2 A$$

The UNIX system, developed originally at Bell Laboratories, seemed the most promising to handle both the photocomposition project and editorial and automated office requirements. UNIX, a general-purpose multi-user interactive operations system written for the DEC PDP 11 computer, is able to serve many users doing different tasks, provides easily used files and possesses a large number of subsystems. Photocomposition, report preparation, automated typing of letters and other word processing activities can all be handled by the same computer, as well as all of the referee and manuscript files usually found in a journal's editorial office. The system also has the capability of accepting material directly from the computers of other UNIX users.

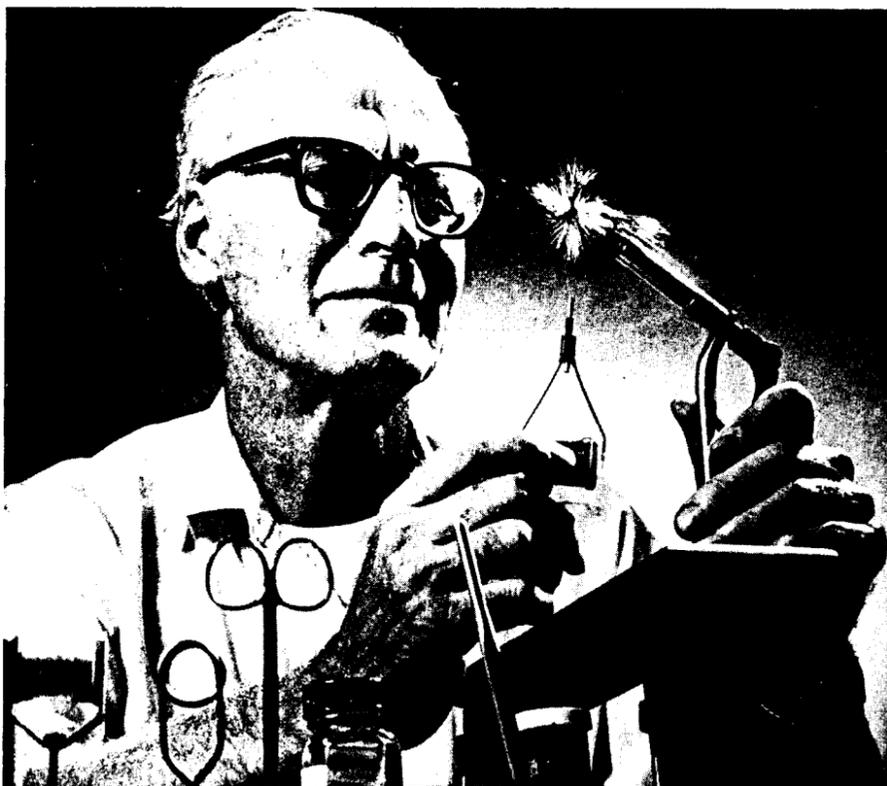
The task of modifying the software and of developing new programs to meet journal technical and production requirements is the responsibility of Stuart Kern, with assistance from Paul Dempsey and Sheila Isaacs.

Material to be typeset is entered on standard keyboards by typists and displayed on CRT terminals. Since the keyboards do not have the variety of characters required, nor the capability of displaying math in its final, printed form, special codes are used. However, the coding is easy to learn and easy to use.

The first phase of the project demonstrated that keyboard input speed for complete manuscripts was significantly faster than present conventional typesetting methods, the difference between them being about 60%. The input of difficult mathematical material alone was up to 300 percent faster. Since much of the cost of publishing is directly related to the input typing of manuscripts, this indicates that significant savings in publication costs can be achieved. Preliminary estimates show that the savings for the journals could be as much as \$100,000 annually.

The second phase, which is due to start in about one month and will last about a

(continued on page 2)



John McCafferty, who works on the ISABELLE project, (above) shows how fly-tying is done. "All flies should be tied on hooks made of the finest steel," he advises. "The hooks are carefully tempered to be neither brittle nor soft, and the points are needle sharp for quick penetration."

—photo by Humphrey

## Hobby Hooks Anglers

The necessary materials read like a line from "Macbeth:" polypropylene, feathers, squirrel tails and fur, kapok, hackles, deer hair and buck tails. These are among the ingredients, however, which fly-tyers such as BNL's John McCafferty combine to imitate the insects, minnows and crustaceans on which fish feed.

"It's sometimes called 'fly-dressing,'" explained John, chairman of the BERA sponsored group of tyers, "and considerable experience is needed to tie flies for commercial purposes." An angler can quickly learn, though, to tie a fly which will catch fish. "It's become a hobby within a hobby," he continued, and estimated that there may be as many as a quarter of a million amateur fly-tyers in the US.

Club members give "trout seminars" to fishing enthusiasts and are especially active in local scouting, which awards merit badges for angling. "The trout fishermen must be knowledgeable," noted John, "about the season, the river and the flies that would naturally be found in it. Fish won't 'hit' a fly that doesn't look like one commonly found in that season, or at that

time of day."

For those who take their fishing quite seriously, the long winter months are especially barren. To while away the hours when they can't be out in the streams, John said, anglers begin tying their own flies for the coming season. The unusual array of materials are ordered from fly-tying supply firms so that whether the fisherman chooses to tie a wet (sinking) or dry (floating) fly, he or she can do so.

Professional women fly-tyers have performed the art "for many years," John continued, "and are among the finest fly-tyers in the country. The classic book on fly-tying was written by Helen Shaws."

BNL's fly-tyers meet about once a month and occasionally fish together. John and his 12 member group welcome novices and their interested sons and daughters to their meetings. His extension is 2012. A good vise, preferably a lever and cam type, is necessary for fly-tying, along with hackle pliers, a pair of sharp scissors, thread bobbin and a magnifying glass. The group may display their handiwork in an exhibit on-site, said John.

## Salant

(Cont'd)

10-20 MeV range (neutron-proton and photo-neutron problems), now low-energy physics. For work in the BeV region, they exposed nuclear emulsions at first to cosmic rays in high flying balloons, and some years later to the particles from the Cosmotron. It was with these emulsions that the first machine-made negative K mesons were observed.

The Group designed BNL's first gas Cerenkov counter. After their introduction to the bubble chamber, the NIG group turned to that technique, first at the Cosmotron, then at the AGS. Proton-proton, pion-proton, pion-neutron and antiproton-neutron interactions, from 1 to 3 BeV, were investigated with the primary aim of studying mechanisms of meson creation.

Salant retired from Brookhaven in 1966, and continued his research in particle physics as Professor of Physics at Vanderbilt University in Nashville, Tennessee. He maintained a close relationship with BNL, however, first as a Visiting Senior Physicist and later as a Guest Senior Physicist — the appointment which he held at the time of his death. He retired from Vanderbilt in May 1972 and was made Professor Emeritus of Physics by the university.

Survivors include his wife Marjorie. No funeral services will be held at this time.

## Class Notices

Two new one hour courses will be conducted weekly in the YOC classroom in building 179. The two courses will be Basic Physics and Introduction to Programming. The first physics class will meet on Thursday, October 5 and the first programming class on Friday, October 6. Each class will run from 9:30 to 10:30 a.m. These classes are a part of the Technician Tutorial Program and are designed to prepare employees to take college or other courses in physics or programming. The classes meet during working hours and each applicant must have his supervisor's permission in order to attend. For information or enrollment, call Robert D'Angio, Ext. 2878, or Roy Jefferson, Ext. 2527.

## Phys. Rev.

(Cont'd)

year, will require the production of papers at an annual rate of 6,000 pages. Remaining technical production problems will be resolved and data for a financial model collected. This will provide information of critical importance to the Society when it must decide whether or not to convert all of its annual 30,000 journal page production to the new technology.

## Visas and Taxes

In general, aliens employed in the United States are required to pay social security tax. However, aliens who are students (F Visa), or exchange visitors (J Visa) are not required to pay social security tax. In the past, problems have arisen when alien employees have changed from a student or exchange visitor status, either to another non-immigrant status, or to an immigrant (permanent resident) status. When their status is changed, social security tax should be withheld from their salary. Since the Laboratory is not always notified by the Immigration and Naturalization Service when the status of an alien employee is changed, employees should notify Personnel Records whenever there is such a change. Failure to do so may result in the alien being faced with a substantial liability for back taxes owed.

## Breast Examination Program Scheduled

All female employees, wives of employees, and other female family members are invited to attend a 90-minute program on Breast Self-Examination. The course will be given four times in the Medical Department (Bldg. 490, 30 Bell Ave.) Seminar Room:

10:30 a.m. to noon

or

1 p.m. to 2:30 p.m.

on

Tuesday, September 19

and

Wednesday, September 20

The program includes a 30 minute film, a practice session using a plastic demonstration mannequin, and a discussion period. The demonstration portion of the program is timed to allow everyone to utilize the model. Two BNL Registered Nurses and Laura Sbarra, M.D. of the Industrial Medicine Clinic will be available to answer questions.

It is important that all women practice this examination on a monthly basis. Breast cancer can be cured if it is found early and treated promptly.

The program, sponsored by the Long Island Division of the American Cancer Society and the Industrial Medicine Clinic is scheduled during the work day. Employees planning to attend should notify their supervisors.

## Bus To NY Marathon

The BNL Roadrunners plan to charter a bus to take runners, interested BERA members and their families to this year's running of the New York Marathon scheduled for Sunday, October 22. Present plans call for departure from the Lab in the early morning. Runners will be taken to Fort Wadsworth, the starting point of the race. The bus will then take all others to Manhattan.

Following the awards ceremony in the late afternoon, everyone will be picked up near the finish line for the return trip to the Lab.

The bus, which will be a major convenience for runners, will provide others an easy, inexpensive trip to one of the nation's major marathons, and New York's premier amateur athletic event.

In order to make final arrangements, it is necessary to complete plans by September 20. Bus tickets will cost \$5 per person. Checks should be made out to "Brookhaven Lab Roadrunners" and forwarded to Dave Judkins, Building 318, or Dick Fuller, Building 197C.

Please enclose your Lab address and extension with the check so that you will be notified of specific times and meeting places.

## Theater Group Tryouts

Tryouts for this year's productions of "The Prime of Miss Jean Brodie" by Jay Presson Allen and "The Gingerbread Lady" by Neil Simon will be held on Sept. 18th and 21st at 8 p.m. in the Physics Dept. Seminar Lounge. For further information call Liz Russell, Ext. 3940.

## Weekend Tour

The Solid State Physics group will host the mini tour this weekend. Visitors will learn about the 3 MeV accelerator which produces electrons for experiments on different solid materials. On view will be two target rooms where experiments are done. One room contains a cryogenic experiment on materials for superconductivity. The second target room is equipped with mirrors which are part of an optical system for determining the effects of radiation on salt. This research, combined with results from other experiments, will help answer the question of whether or not radioactive nuclear waste can be safely stored underground in salt domes.

EXHIBIT CENTER

## DOE's Energy Saving Tips

- If you own a frost-free refrigerator, be sure to keep all liquids covered to reduce moisture build-up. This will save energy and reduce your costs to operate the refrigerator.
- If the frozen vegetables you buy come sealed in a plastic pouch, you can cook them with potatoes or another vegetable in the same pot of boiling water — and save the energy that would be used by a second burner.

## Sailplane Sails To BNL

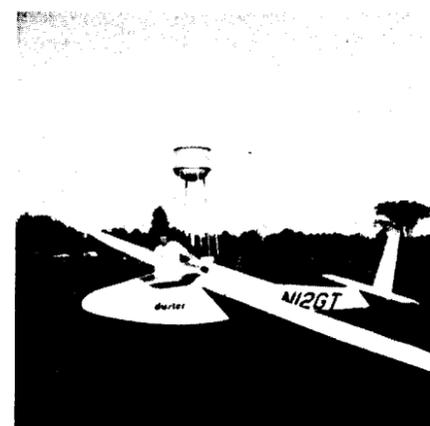
When on September 2, Kathy Taylor found the air quality, clouds and visibility conditions all favorable, she headed for the Brookhaven Airport and the sailplane which she and her husband George have been flying for the past 2 years. For a little more than an hour, Kathy sailed over the airport and Laboratory area, then her Duster sailplane hit an air mass which drifted steadily down, and not up.

At 1 p.m. that afternoon, BNL police Captain George Baer wrote in the log, "K. Taylor of the Chemistry Department landed a sailplane on the Laboratory's South East field."

"It's not unusual for a sailplane to have to make this kind of landing," Kathy later said. "The craft is meant to be landed in a short space and is equipped with good stopping devices to do so."

Kathy explained that air is in continuous motion "so you needn't have a windy day to soar." "When air becomes warmed by the earth," she continued, "it rises." A sailplane will spiral up into a narrow band of warm air, or thermal lift, then slowly descend until it climbs up again in another warmed bank. "Air that goes up has to come down someplace," said Kathy, and the "someplace" it chose September 2 was the field in front of Brookhaven Center. Three and one-half hours later, Captain Baer reported, "glider was removed from site on trailer."

The Laboratory's field was her safest choice when Kathy realized she would not make the airport. The possibility of an unplanned landing, such as she made damag-



"A single engine powered plane is less troublesome to land," noted Kathy Taylor (above), "but the sailplane is more fun." Kathy successfully landed her Duster on the field in front of Brookhaven Center, where BNL police photographed her.

ing neither herself nor the plane, is all part of the sport. "The sailplane pilot takes a chance when he or she branches out," said Kathy, "the fun of it is to see how far you can go. If you circle above the airport you can always make a regular landing, but it's not very exciting."

Kathy, who has been flying for about 3 years, last year received her power rating which permits her to pilot the tow plane used to get the sailplane into the air. Kathy works with the Chemical Information System in Chemistry when she's not climbing 1000 feet above the ground or higher, at 500 feet per minute.

# BROOKHAVEN BULLETIN

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**BERNICE PETERSEN**, Editor  
**ANNE BAITTINGER**, Staff Writer  
**ROSANNE PAGANO**, Editorial Assistant

40 Brookhaven Ave., Upton, N.Y. 11973  
Telephone (516) 345-2345

**CARL R. THIEN**, Public Relations Officer

## BERA's Big Event Starts Tonight



Josephine Gazzola, head of the Special Events Committee, confers with Chef Bob Shiminski on last-minute arrangements for BERA's Dinner-Theatre party scheduled for tonight, tomorrow and Sunday. On Friday and Saturday, the cash bar opens at 6:30 p.m., dinner at 7:30 p.m., and the performance at 9 p.m. On Sunday, the respective times are one hour earlier; 5:30 p.m., 6:30 p.m. and 8 p.m. —photo by Humphrey

## Soda Vending To Cease

The Environmental Protection Agency has for various reasons decreed that, except in very unusual circumstances, soda cannot be vended in cans on Federal property. Rather, vended soda must be in paper cups, or return-for-deposit containers.

BNL has not been able to qualify for continued vending in cans, nor able to arrange for vending in paper cups at reasonable cost. The volume of soda sales will not support the large investment required to obtain new machines to replace the 35 PEPSI machines currently used to dispense soda in cans.

All soda vending at the Laboratory will cease as of September 30. However, employees will still be able to buy soda from the coffee truck.

## Payroll Plan

In the event of a U.S. mail strike, it may be appropriate at this time to state that the Fiscal Division has formulated contingency plans to ensure that the employees' payroll checks which are normally mailed to off-site banks by the Laboratory will, in most cases, continue to reach the respective banks on the scheduled pay day. In the few cases where this may be impractical, the affected employees will receive their pay checks through the regular payroll distribution.

## Arrivals & Departures

### Arrivals

Jayne A. Cutt.....	Chemistry
Michael A. Angelone.....	Plant Engr.
Donald S. Barton.....	Accelerator
Antoinette Cockerham.....	Contr. & Proc.
James W. Davenport.....	Physics
Thomas F. Dilgen.....	Accelerator
Frank Di Maggio.....	Accelerator
Robert J. Edwards.....	Accelerator
Michael W. Fanelli.....	Nuclear Energy
Richard C. Fernow.....	Physics
Barry A. Freedman.....	Physics
Joseph L. Funaro.....	Accelerator
Dag Horn.....	Physics
Malcolm R. Howells.....	Physics
Kenneth E. Hundzinski.....	Applied Math
Alan D. Isaacson.....	Chemistry
Barry A. Karlin.....	Safety & Env. Prot.
Peter M. Kroger.....	Chemistry
Thomas W. Ludlam.....	Physics
Daniel R. McCafferty.....	Accelerator
Paul J. Ribaud.....	Accelerator
Phillip F. Schewe.....	Accelerator
Diane L. Stassi.....	Biology
Goran Wendin.....	Physics
Antonio R. Wijangco.....	Physics
Daniel V. Wilson.....	Accelerator
Ralph D. Wilson.....	Safety & Env. Prot.
Ronald G. Wittlock.....	Applied Math

### Departures

Robert F. Adamowicz.....	Energy & Env.
Edwin F. Bradbury.....	Accelerator
Randall H. Caton.....	Energy & Env.
Shu-Chen Dang.....	Physics
Thomas H. Epps.....	Accelerator
Ali Ezzati.....	Energy & Env.
Paul W. Frame.....	Biology
Heather L. Hartmann.....	Accelerator
Kevin J. Knob.....	Energy & Env.
Kee P. Koo.....	Energy & Env.
Joseph Lepore.....	Energy & Env.
William R. Murray.....	Plant Engr.
Barry E. North.....	Biology
Edward B. Rock.....	Physics
Arnold M. Roesch.....	Physics
Eileen C. Scott.....	Energy & Env.
Robert O. Zoller.....	Accelerator

## BNL Camera Club

There will be a meeting of the Camera Club on September 20, at 7:00 p.m. in the Recreation Building. Activities for the coming year will be discussed.

All members are asked to attend. Visitors and new members are welcome.

## It's... Cricket

An intramural game will be played Sunday, September 17, at 1:00 p.m. at the recreation field. This is our last game of the season and we would like to see as many as possible of our team, their friends and visitors in attendance. For those of you who have been unable to make it to a game, this could be your last chance for the 1978 season.

After the game there will be a BYO barbecue held at the recreation hall located at the apartment area. Beer and soda will be available for a small fee. Bring a covered dish to share. In case of bad weather the game may be called but the barbecue will still take place. For further information, call Debu Majumdar at Ext. 2633, or 286-1056.

As we enter into the last of our activities of the season we would like to thank everyone who helped make Cricket possible and hope to see you all again in the spring. Come celebrate with us!

## Cafeteria Menu

### Week Ending September 22, 1978

<b>Monday, Sept. 18</b>	
Tomato bouillon.....	(cup) .30
.....	(bowl) .40
Franks and beans.....	1.10
Roast sirloin of beef and 1 veg.....	1.40
Hot Deli - Pastrami.....	(on bread) 1.15
.....	(on roll) 1.25
<b>Tuesday, Sept. 19</b>	
Minestrone soup.....	(cup) .30
.....	(bowl) .40
Saga's homemade lasagna and 1 veg.....	1.35
Chopped steak and 1 veg.....	1.15
Hot Deli - Knockwurst.....	(on bread) 1.15
.....	(on roll) 1.25
<b>Wednesday, Sept. 20</b>	
Split pea soup.....	(cup) .30
.....	(bowl) .40
Short ribs of beef and 1 veg.....	1.40
Fried rice and pork w/Chinese noodles.....	1.30
Hot Deli - Italian sausage & peppers hero.....	1.25
<b>Thursday, Sept. 21</b>	
Puree of Mongol.....	(cup) .30
.....	(bowl) .40
Chicken cacciatore on noodles.....	1.20
Beef liver and onions w/1 veg.....	1.15
Hot Deli - Barbequed beef.....	(on bread) 1.15
.....	(on roll) 1.25
<b>Friday, Sept. 22</b>	
Clam and celery soup.....	(cup) .40
.....	(bowl) .50
Pot roast and 1 veg.....	1.40
Seafood cakes and spaghetti.....	1.10
Hot Deli - Smoked tongue.....	(on bread) 1.15
.....	(on roll) 1.25

## Hockey Tickets

Season tickets for Islanders hockey games have not yet been received. Anyone interested in buying tickets for the first pre-season game, scheduled for Saturday, September 23, should call Blanche Laskee, Ext. 2873.

Hopefully, information on the sale of regular season tickets will be published in next week's Bulletin.

## Flying Club

If you are a pilot or are interested in learning to fly, come to Room C in Berkner Hall on Monday, September 18 at noon.

We will have a brief information meeting to discuss plans to reorganize the "BNL Flying Club."

If you are interested but will not be able to attend the meeting, please call Rod di Girolamo, Ext. 4805, or Ron Dobert, Ext. 4082.

## Mountain Club

A meeting to plan fall activities will be held in the North Room of Brookhaven Center on Thursday evening, September 21 at 7:30 p.m. Everyone is welcome, especially those interested in hiking, canoeing, rock climbing and similar activities.

## Softball

### League I

#### Phoubars 15 - Blue Jays 3

The Phoubars won the Division B Playoff by beating the Blue Jays 15-3. After a scoreless two innings, the Phoubars jumped out in front 3-0 on hits by Bill Sells and Rich Parsons and two errors. (The Blue Jays scored in the last of the fourth to make the score 3-1. Hits by Gary Millisen, Rich Parsons and a sacrifice fly made it 4-1. The Blue Jays narrowed the gap to 4-3 on hits by George Oldham, Joe Hanson and Bob Meier. Joe Albergo and Ken Kowalski had hits in the sixth inning which opened up the lead to 6-3.) The Phoubars exploded for nine runs in the last inning for the final 15-3 score. On defense, Guy Albergo, Guy Mastrion, Ken Kowalski, Rich Parsons and Gary Millisen came up with big plays and Jack Brennan pitched a fine game.

#### Ravens 8 - Six Pax 7

Wayne Smith made a game saving catch in the top of the seventh inning to help preserve the Raven's Victory. Bob Brown drove in the winning run in the bottom of the seventh inning to win the game.

### Mixed League

#### E-Z Riders 10 - Balls & Strikes 6

An all around good team effort with Larry Musso going 4 for 4 and a home run by Gary Goldstein.

#### Oh Kays 10 - Thrids 5

An excellent defensive and offensive game by the Oh Kays. Sydell Lamb played an excellent third base. Kay Hunt surprised the center fielder with an outstanding double.

## Pile-Up Mars Bike Race

Due to a pile-up which occurred on Route 25 (almost in front of the Ridge Fire Department), four starters were unable to complete the 2-lap, 32-mile bike race held Sunday, September 10.

An ambulance was summoned for Arthur Scott of Applied Math. From accounts, four riders fell, including Scott, Laura and Steve Rowley (children of Keith Rowley, Chemistry) and Alonzo Bowers of Stony Brook SUNY. Bowers was first to fall and suffered abraded knees. Scott followed and suffered a concussion, 3 broken ribs, a slit upper lip and a chipped tooth. The Rowleys received minor bruises.

Seven entrants stopped, including Jack Scrofani who rode back to race headquarters with news of the pile-up. Joan Watson, a nurse, arrived by car from race headquarters and rendered first-aid to the injured racers.

Al Deneuve, Dennis Nordstrom and Don Litcher remained with Art until the ambulance arrived and then finished the race. The accident won't stop him from racing, remarked Art, but next time out, he'll be wearing a helmet!

A winning time of 88:16 was turned in by Andrew Alburger for the 2-lap race. A time of 43:00 put George Philipp in first place among the senior men for the single-lap event.

Herman Geist, assisted by his wife and Cindy Morgan, did his usual superb job of directing the meet, and John Peters helped hang the course direction signs. Keith Rowley and Julie Peierls helped direct traffic at the Lab entrance.

### Single-Lap Results

Overall Position	Senior Men	Time
1	George Philipp	43:00
2	Ulf Orhaug	43:25
3	Robert Ensor	43:26
6	Chris Hodor	49:03
9	Dennis Nordstrom	55:55
11	Don Litcher	59:42
<b>Junior Men</b>		
4	James Watson	44:30
5	Ben Peierls	48:44
7	Michael Elzinga	49:27
10	Steve Rowley	56:55
12	Warren Smith	59:46
13	Lindsey Adams	62:46
17	Lestocq Orman	69:15
18	John Carew	76:01
19	Joe Carew	76:02
<b>Junior Women</b>		
14	Laura Rowley	63:51
<b>Veteran Men</b>		
8	Peter Adams	54:00
15	Ernest Courant	61:23
16	Al Deneuve	64:20
20	John Carew	76:03

### 2-Lap Race

1	Andrew Alburger	88:16
2	Daniel Chasman	88:17
3	Jean Bussiere	88:18
4	John Peters	88:19
5	Paul Harter	88:20
6	David Smith	88:21
7	Gerry Morgan	88:22
8	Eric Britton	88:23
9	Kevin O'Hagen	102:32
10	Myrton Kinney	113:10
11	Joseph Greener	117:27
<b>Best Lap</b>		
	Paul Harter	43:15

## Badminton

A badminton clinic for all players planning to enter the fall tournament is being considered. Special attention will be given to improving the skills of intermediate players with the hope of raising the quality of tournament play.

We intend to meet at 5 p.m. for an hour and a half twice a week for three weeks in late September or early October. We must reserve the gym for this time as soon as possible. Please advise John Binnington, Ext. 3489 of your interest.

## Tennis

Since the summer tennis season is almost over, advance sign-up for tennis courts at the BERA Film Service Office will be discontinued starting Friday, September 15. From that time on, all courts will be available on a first-come basis. Players should sign up on the court blackboard, as specified in the rules posted on the courts.

## 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.

772. MATERIAL HANDLER - Supply and Material Department.

773. MASON - Plant Engineering Division.

779. RIGGERS ASSISTANT - Plant Engineering Division.

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

774. TECHNICIAN (Health Physics) - A.A.S. or equivalent in Engineering or Physical Science. Safety and Environmental Protection Division.

775. PROGRAMMING ASSISTANT - BS or equivalent in Computer Science to assist in processing and analyzing data. Ability to write new and modify existing FORTRAN Programs. One year term appointment. Physics Department.

776. RESEARCH SERVICES ASSISTANT - To clean and wash laboratory equipment, sterilize glassware and surgical supplies. Will also provide general laboratory assistance. Medical Department.

777. TECHNICIAN - Requires A.A.S. or its equivalent in electronics and a strong background in the repair and maintenance of scopes and computer terminals. AGS Division, Accelerator Department.

778. HEAVY EQUIPMENT MECHANIC OPERATOR - Plant Engineering Division.

### Autos & Auto Supplies

69 CORVETTE - 350 auto, conv. & hard top, a/c, p/b, p/s, 18,000 orig miles, yellow w/blk int, racing mags, excel cond, must see. Linda, Ext. 3199 or 727-7304 after 5.

68 FORD FAIRLANE - stick six, 60,000 mi, reliable, \$180; Goodyear tires, both for \$259. Skalyo, Ext. 2509.

71 MERCURY COUGAR - XR7, V8, auto, all power, a/c, radial tires w/snows, low mileage, \$1,700. 698-7661.

54 JEEP PICK UP - 4 whl dr, runs or good for parts. \$350. Firm. 924-5192 eves.

FRONT END - for MGB, make offer. Ellen, Ext. 3725.

77 PLYMOUTH FURY SPORT - buckets, a/c, p/s, p/b, am/fm 8 trk, 18 mpg w/air on, A-1 cond. \$4,300. Firm. Al, 588-4703.

TAPE DECK - 8 trk stereo w/speakers, good cond, \$15; car ramps, set of 2, good cond, \$10. 289-5012 after 6.

TIRES - good spares, E70-14, \$3; E70-14, \$5; E70-14, \$5; 735-14 snow; D78-14, \$8; D78-14, \$3. Sue, Ext. 4207.

68 OLDS CUTLASS - auto, air, radio, 55,000 mi. \$375. 924-8651 after 5.

70 DODGE DART - 2 dr, auto, p/s, snow tires incl, 110,000 mi, runs well, orig owner. Best offer. Joe, Ext. 2251.

BRAKE DRUMS - set of 4, resurfaced, fits Dodge and Plymouth cars w/14" wheels. \$40 or best offer. Joe, Ext. 2251.

73 SUZUKI - TM125 dirt bike, good cond, \$350. Firm. 475-3415 after 5:30.

17' TROTWOOD - Travel trailer, sleeps 6, stove, refig, head, heat, hot & cold water. \$1900. Firm. Dominic, 732-2668.

73 PONTIAC CAT - full power, orig owner, car in excel cond. \$2500. Bob DiLello, Ext. 2964.

RIMS - (2) for 13" wheels, Ford Falcon or similar cars, \$3 ea; (1) rim for VW Beetle, \$2. Ext. 4240 or 286-0295.

67 MERCURY - 4 dr sedan, p/s, auto trans, very dependable. \$150. Jim, Ext. 4312.

66 FORD VAN - new clutch, battery, alternator, full exhaust system. \$500. Pat/Dan, 277-1284.

74 GREMLIN - std shift, 2 dr, excel gas mileage, 45,000 mi, perfect cond, make offer. 924-7662 or 246-5060.

SNOW TIRES - (2) 1 winter WW radials, SR175-14. \$60 or best offer. Tony, Ext. 3195.

HOLSCAUL MOTORCYCLE TRAILER - brand new, never used, 2 bike. \$200. Nick, 286-9249.

67 SUZUKI - MC 250 cc, X-6 Hustler, 12,000 mi, excel cond. 878-2847.

CHEVY RIMS - (2) 14", (1) w/good F78-14 tire. \$15. John, Ext. 3675 or 924-3528.

66 CHEVY VAN - runs good, paneled & carpeted. \$700 or best offer. Bill, 281-2217.

66 VW BEETLE - clean, reconditioned engine, 2 yrs, new battery & regulator, good looking ext, radio. \$375. Ext. 4240 or 286-0295.

VW PARTS - box of misc. parts, \$10; VW engine test stand w/starter & battery, \$29. Frank, Ext. 2022.

69 CHEVY - 2 dr, V8, auto, Impala, p/s, p/b, new paint & tires, very good cond. \$850. 744-2192.

HOLLEY 850 - double pumper w/edelbrock intake manifold for Chevy big block w/large port heads, excel cond. \$85. 289-5012 after 6.

TIRES - (4) 6 hole GM rims w/tires off a '75 Blazer. \$60. Dominic, 732-2668.

78 HARLEY DAVIDSON - 250cc, on/off road, excel cond, low mileage, \$900. Nick, 286-9249.

64 VOLKS - sunroof, new battery, trans axel noisy, needs clutch work. \$200. Ext. 2046.

62 MERCURY - Meteor Super Sport, collectors item. \$200. 475-3792.

HONDA - 350cc road or trail, 9000 orig imles. 475-3792.

72 PINTO - Squire wagon, auto, roof rack, new tires, brakes, tuned, excel cond. \$950. 689-8793.

76 YAMAHA - D.T. 400 Enduro, dirt & road. \$550. Ext. 4742 or 744-2688.

72 PLYMOUTH - Fury, custom suburban station wagon, 9 pass, roof rack, am/fm radio, very good cond. \$1250. Ext. 3228 days or Ext. 2520 eves, ask for Tenant of Room 27.

71 MERCURY - Cougar XR7, auto, all power, a/c, radial tires w/snows, low mileage. 698-7661.

75 MAVERICK - auto, 6 cyl, a/c, p/s, p/b, (new), 4 dr, radio, 31,000 mi, excel cond. Ext. 7923 or 928-4517 after 5.

69 FORD FAIRLANE - running cond. \$100. Ext. 3486 or 744-0986 after 6.

69 CHEVELLE - Greenbriar wagon 307 eng, auto, p/s, runs well, good body, needs rear window motor/antenna. \$350. Dick, Ext. 2068.

74 VEGA - good cond, am/fm, 56,000 mi. \$800. 727-5827 after 5.

69 AUSTIN-HEALY - Sprite, white, convert, very good cond, low mileage. 286-2093.

70-71 CAMARO - 6 cyl, std shift, excel running cond, body rusty. \$450. Ext. 4266.

64 OLDS - F85, 4 dr sedan, p/s, auto, needs tune up, brakes, - has body rot - good for parts or second car \$100. 698-1793.

68 FORD GALAXIE - 500, p/s, p/b, auto, new brakes, water pump, universals, tape deck. \$300. 878-2335.

76 CHEVY CHEVETTE - auto, 38,000 mi, excel cond. 878-2335 after 6.

74 FORD - 250 Pick up, 8' bed, auto, power disc brakes, a/c, clean. \$3,800. 541-7863 after 6.

76 TORINO - auto, a/c, am/fm stereo tape player, steel radials, excel cond, 39,000 orig miles. \$3,500. 277-2671 after 6.

71 PINTO - get excel gas mileage, 4 new tires, dependable trans, must sell. \$525. Ext. 2534 or 727-1346.

TIRES - (2) 10x16.5 Goodyear snows w/rims, new, \$150; truck cap, paneled, insulated, jealousy windows w/screens, 8'x4'. \$400. 698-9169.

8 TRACK - plus fm, under dash player w/fast forward, eject, fine tuning, slide mount, perfect cond. \$45. Ext. 4701.

70 PEUGEOT - 504, 4 dr sedan, 20 mpg, runs well, badly rusted, make offer. Ed Kaplan, Ext. 2007 or 751-1474.

66 DODGE DART - 180 K mi, ugly, needs work, but runs and starts every time. no offer refused. Ext. 3766 or 286-0123.

72 VOLVO - 142, fuel injection, 4 spd, \$1500. Sam, Ext. 2018 or 928-3568.

74 PEUGEOT - 504 std, excel cond, new radials & 2 steel belted radials w/studs, new brakes, Blaupunkt am/fm radio. \$3800. 345-2921 or 728-9106.

69 CHEVY VAN - good running cond. \$600. Ext. 2832 or 427-9362 eves. Joe.

DELCO - air shocks and all fittings, heavy duty, new, in orig carton, orig cost, \$80, sale \$35. Ext. 4701 or 271-2877.

### Boats & Marine Supplies

26' PACEMAKER - 1965 F.B. Sedan, needs completion of ext, some wood work, sound boat, must sell, no reasonable offer refused. Laird, Ext. 4068 or 734-7307.

34' SLOOP HINCKLEG - Sou'wester built in 1947, good cond, great family cruising, fully equipped. Jerry, Ext. 3334.

28' COLUMBIA - twin V8's, F.B. sleeps 5, extras, in water. \$3500. Pat, Ext. 2939 or 732-1243 after 6.

RUNNING LIGHTS - fore and aft, flashlight battery run. \$4. John, Ext. 3675 or 924-3528.

16 1/2' GLASPAR - deep V, 40 hp Johnson, trailer, excel cond, must sell, ideal for family and fishing. \$800. Allan, 698-6376.

TRAILER - home made, heavy duty, take up to 16' boat. \$50. Don, 929-6646.

16' FIBERGLASS - 35 hp Johnson elec start, tilt trailer, in water. \$600. 286-0795.

24' TYLERCRAFT - cruising sailboat, 3 sails, 9.9 hp elec start, excel cond. Ext. 4638 or 567-1196.

17' LARSON - 55 hp Evinrude (just serviced) fiberglass (bottom has crack), trailer (good), all for \$500. 286-3508 after 6.

1962 CRUISERS INC. - lapstrake wood skiff, 1968-75 hp Merc, 1968 Seal trailer, lights, anchor, boat hooks cushions, etc., ready for water, see to appreciate. Bill, Ext. 3848 or 698-3145 eves.

21' VENTURE - trailer, 4 hp, 3 sails, many extras. 928-2954 after 6.

200 LB MUSHROOM ANCHOR - and mooring, complete, must sell, no reasonable offer refused. Ext. 4042 or 821-0319.

22' VENTURE - sailboat, fiberglass, sleeps 5, pop-tops, galley, head, roller furling jib, 15 hp Johnson, fully equipped. David, Ext. 3501 or 286-8097.

68 PACEMAKER - twin 210 hp engines, F.B., extras, good cond. 744-4999 after 7.

### Miscellaneous

METAL CLOTHES CABINET - fair cond, brown, 72"x36"wx20 1/2"d. 331-1203 after 5:30.

STEREO - hi fi, phonograph, portable, ideal for den or dorm. 584-5919.

CANNING JARS - (glass top) quarts. Ext. 2926.

POP UP CAMPER - 1970, very good cond, refig used on elec or gas, sink, double dinette, 2 dbl beds, stove convertible for inside or out, all canvas has been dbl seamed, excel for family camping. Must sell, make offer. Ext. 3480.

FREE - for the taking, 110' chain link fence, plus gate, excel cond. Paul, 345-2071, 698-1766.

LAYING HENS - (4) rooster (1) \$2 ea; swivel rocker, \$20; 19" B&W Panasonic TV, \$75; Cosco stepstool, \$8; alum folding table, \$30. 325-1961.

WEAVER - K6-C3 6X rifle scope, cross hair. \$15. Roy, Ext. 4613.

COLLIE PUPS - pure breed AKC papers, eye checks, shots, sable & white, 2 males, 3 females. Joe, Ext. 4547 or 399-2018.

BABY ITEMS - good cond, large dresser, \$20; swing-o-matic, \$8; gerry carrier, \$8; infant seat w/handle, \$8; car seat, \$3. 744-2514.

BIC - 960 turntable, Lafayette amp, two BIC Venturi formula 2 speakers, excel cond. \$275; Lafayette Criterion studio monitors Model 999 speakers, \$200 for pair, like new. Roy, Ext. 4613.

KITCHEN SET - formica top 60" table & four chairs, newly covered w/extra leaf. \$60. Frank, Ext. 2350 or 475-8187.

PRESSURE COOKER/CANNER - Sears, used 4 times, instructions incl. \$35. Joe, Ext. 2251.

KITCHEN TABLE - w/four chairs, \$30; desk w/chair, \$10; Sears iron, \$5; other small household goods. Alan, Ext. 3509.

SUMP PUMP - new, for preventing bsmt flooding. \$85. Ext. 2492 or 475-8658 after 6:30.

JOURNALS - Health Phys. 1965-77, Phys. Med. & Biol. 75-77, IEEE Trans. Nucl. Sci. 67-77, IEEE Spectrum 67-77, Phys Today 75-77, make offer. Ext. 3462 or 2006.

REFRIGERATOR - GE monitor top, circa 1930 in operating cond, \$45; blower, squirrel cage type, 1500-2000 CFM, no motor, \$10; propane gas cyl, 20 lb w/reg \$12; water pump, 1/2 hp centrifugal, F&W mfg, \$10. Gil, Ext. 4043 or 727-6258 after 6.

LIVING RM CHAIRS - various styles, swivel & rocker, 4 units, \$20 ea or 4/\$60; Alberta Spruces, 3 ft, \$7 ea; American Holly, up to 5 ft, \$3 ea; White Pines, 4 ft, \$4 ea - you dig. 744-5867.

CRAFTSMAN RIDING MOWER - 8 hp rear engine, elec start, 32" cut, \$200; "Shaw Walker" solid oak 3 drawer file cabinet, excel. \$50. Walt K., Ext. 4504.

TODDLER - expandable play-yard fence, \$12; exercise bike, dual action, \$15; men's 3 spd bike, \$15. 475-0144 after 6.

FOOTBALL TICKETS - (2) for Jets vs Seattle, Sept. 17, Sect. 19 - upper level. \$9 ea. Evelyn, Ext. 4310.

CHAIR - wood, desk, \$25; recliner-vinyl w/cover, \$35; Garrad turntable, \$30. Ext. 4172.

DOG HOUSE - approx 4'x4', cost \$60, new material never used, \$30. Richie, Ext. 4254 or 734-7584 after 6.

FREE - 500 gal fuel oil tank and refrigerator/freezer (needs rubber around door). Ext. 2926 or 281-0268.

### 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

ISLIP - 7 rm ranch w/den and w/w carpeting, full bsmt and attached garage, fenced in yard w/patio, lot of beautiful trees on 1/2 acre. \$34,990. 582-9215.

ROCKY POINT - 3 bdrm ranch, fin bsmt, oil heat, fenced in yard, 4 blocks from Sound, 15 min from Lab, all appl. \$28,000. Ext. 4679 or 744-5777.

LAKE PANAMOKA - 2 lots, Cape Cod, 2 bdrm, l/r, d/r, large kit w/refrig, dishwasher, washing machine, freezer. Must see to appreciate. 929-4544 after 6.

SETAUKET - (Strong's Neck) 3 bdrm ranch, fin bsmt, central a/c, appl, w/w carpeting, draperies, storms, low taxes, beautifully landscaped, 3/4 acres, winter water view, priv beach, moorings. \$75,000, 25% cash. Ext. 3918 or 878-8578.

SHOREHAM - 3 yr old, 3 bdrm contemporary ranch, 2 baths, 2 fp's, bsmt, secluded, priv beach. 744-9746.

ROCKY POINT - moving out of state, 4 bdrm Colonial, eik, 2 1/2 baths, fp, w/w carpeting, wood deck, 1/2 acre, priv beach, many extras. 744-1156.

BROOKHAVEN HAMLET - 3 bdrm custom ranch on 1 1/2 lux landscaped acres. New 20x20 barn, oversized garage, screened porch, many other features. 286-0246.

SHOREHAM - 4 bdrm Colonial, 2 1/2 baths, laundry rm, eik, formal d/r, many extras, 2 car garage, 1 acre fenced property. \$56,500. 744-2821 after 6.

CALVERTON - Mobile Home, 12x65, 2 bdrms, dishwasher, washer/dryer (new), w/w, 2 bathrms, patio, double driveway, excel cond, family park, \$12,500. 369-2236 after 5:30.

MIDDLE ISLAND - expanded Cape Cod, lg l/r, separate d/r, eik, 4 bdrms, fin bsmt, with bar, 2 car garage. \$37,500. Owner will hold mortgage. Ext. 3635 or 734-5343.

RIDGE - 1 bdrm house, 3/4 acre, wooded, pond. \$24,000. 924-3997.

BELLPORT VILLAGE - 1/2 acre, 2 car garage, screened porch, 2 baths, attached greenhouse, many extras. \$47,500. 281-8570.

### For Rent

ROCKY POINT - near LI Sound, studio room, no pets. \$200/mo. 744-9724.

MT. SINAI - 3 bdrm house, fully furn, all appl, full fin bsmt, pool table, built in bar, fp, 2 baths, Oct. 1st to Jan. 31st. Ext. 4260 or 928-5737.

ROCKY POINT - near LI Sound, 4 rm house, no pets. \$270/mo. 744-9724.

CENTER MORICHES - beautiful studio apartment, full kitchen and bath, fp. \$195/mo incl util. Ted, Ext. 3295.

WADING RIVER - attractive location, 3 bdrms, wooded yard, available immediately. \$250/mo (util not incl). (212)254-7206.

SHIRLEY - 2 bdrms, l/r, kit, den furn, 7 min from BNL. \$275/mo + util. 878-2545.

STRATHMORE EAST - 1 bdrm, lg l/r, furn, w/w, a/c, fp, dishwasher, sunroof, patio, priv ent, no pets, single person only. \$250/mo incl util. 928-8071.

STRATHMORE RIDGE - 2 bdrm, 1 1/2 baths, 5 appl, central a/c, no maint, prime location, available immediately, 5 min to Lab. \$315/mo + util. 878-8532.

HAMPTON BAYS - spacious 3 1/2 rm apt on the Bay, a/c, cable TV, all util, Sept. to May - no lease required. \$195/mo or \$65/wk. 728-4161.

BELLPORT - 2 rms w/bathroom, for single person. \$175/mo. Ext. 3583 or 286-9725 after 6.

### Wanted

BABYSITTER - 5 days, approx 7 to 4 p.m. \$40/wk. Shoreham area. 473-7914.

ROOM - to rent in private house for quiet, non-smoking employee. Tim, Ext. 2060.

WHEEL CHAIR - 1 adult size, motorized. Ext. 3327.

ONE-WAY RIDE - to Stony Brook for 1 o'clock class on Mon., Wed. and Fri. Will share gas money. Charlie, Ext. 3832.

OLD MILITARY METALS - ribbons, swords, guns, helmets, etc, American or foreign. Betty, Ext. 2937.

GUITAR - 12 string Acoustic guitar in good cond. Price according to name and cond. Tony, Ext. 3195.

TENT - for beginner campers, approx 9'x10', good cond, reasonable. 331-1203 after 5:30.

OLD STORM WINDOW - that can be cut down to 36 1/4 to 80 1/2. 727-5527.

RIDE - to Albuquerque or will drive your car, mid-Sept. Lee, 286-9334.

ROOMMATE - non-smoker, lg 3 bdrm new house, Port Jefferson, no lease, unfurn. \$200/mo + util. Ext. 2070.

HOUSESITTER/DOG WALKER - Oct. 19 to Nov. 9. Ext. 3434.

HAMSTERS OR MICE - will give good home and loving care. Nancy, 281-4673.

FREE HORSE MANURE - for needy garden and hungry plants. Nancy, 281-4673.

ACCORDIAN PLAYER - good on polkas, etc. forming new band. Mark, 727-2861 between 5 p.m. - 6 p.m.

MUSICIANS - for fifth season of established chamber orchestra. Violin, viola, cello, contrabass, woodwind and brass players invited. 475-9294.

FOLK DANCERS - for international folk dancing, Mondays 8-11 p.m. Instruction. Beginners welcome. 751-8763 for details.

HOME - for affectionate spayed Calico cat, 2 tabby kittens, pool table, ping pong table. 744-2821 after 6.

HOME - for 2 mo old puppy, 1/2 poodle, 1/2 mix, female, allergic to dogs. Terri, Ext. 2927 or 924-8599.

FIREWOOD - 3 or 4 cords hardwood, unsplit or even uncut. Andy, 281-8274.