

## In The Land Of The Rising Sun

In mid-November, six scientists from the Reactor Safety Group, Paul Bezler, John Boccio, Walt Kato, Cesar Sastre, Don Schweitzer and Peter Soo, visited Japan to participate in the annual conference on High Temperature Gas Cooled Reactor Safety. Here is Peter Soo's account of their trip and some of the things they learned about the Japanese way of life.

Upon arriving at the new Narita International Airport (after a non-stop 13 hour flight) we were met by members of the Japan Atomic Energy Research Institute who chauffeured us to our hotel outside Tokyo. We were conscious of very stringent security in and around the airport since it had been the site of bloody skirmishes between the police and demonstrators who were protesting the destruction of farmland during the construction of the facility.

As the next day was a free day, we decided to take a train and visit the local town of Mito which is an important cultural, residential, and shopping center. Although the town is only 75 miles from Tokyo, it was clear that Westerners are still a rarity in town and our group was the source of much interest, especially with the younger generation. The town was crowded with shoppers and a favorite means of transportation is the bicycle. At most street corners dozens of bicycles would be parked and none would be chained or padlocked to prevent theft. The streets were impeccably clean and it was a common sight to see shopkeepers hosing down the sidewalk.

The prices of goods in the Japanese stores seem very high. This was especially true for luxury type goods such as Japanese cameras and radios, etc. Anyone who thinks he can buy such goods in Japan and sell them at a profit in the USA had better think again.

Our first taste of Japanese food was in a

restaurant in a large store. All of the dishes are displayed as plastic replicas in the window so that you can see what is available. Unfortunately, the names of the dishes are in Japanese so the only practical solution was to laboriously copy the characters and show them to the waitress.

Generally, eating out in Japan was extremely expensive in the larger restaurants. One meal which John Boccio and I enjoyed in a Kobe Chinese restaurant cost us over \$30 each. Needless to say, we usually ate at cheaper restaurants. A popular dish which we tried was fried eel served on a large bowl of rice. This dish costs only \$2.50 and it was a basic source of sustenance for us on many occasions. By supplementing our diet with "goodies" brought from home and sometimes skipping meals, we were able to stretch our \$18 per diem so that we were not seriously out of pocket. We were also extremely grateful to our Japanese hosts who, on several occasions, held lavish banquets in our honor.

In the sidewalk stores we saw for the first time many strange fruits, vegetables and fish. Although food was quite plentiful it was expensive. However, salaries for scientists and engineers approach or exceed some European and American levels so people in this category can afford to eat well. In many large companies the employees receive a basic salary plus an end of the year bonus

(continued on page 2)



Brookhaven Town Supervisor John Randolph (left) and the Lab Associate Director Vincent O'Leary, signing the agreement for the Lab and Town to jointly sponsor the feasibility study. Looking on is Town Councilwoman Regina Seltzer, who serves on the Town Board committee dealing with sanitation operations.

## BNL And Brookhaven Town Fund Garbage-To-Energy Study

A Nebraska engineering firm has been chosen by BNL and the Town of Brookhaven to study the feasibility of building a facility which would convert garbage produced by the Town into energy which could be used by the Lab.

BNL is in the final stages of completing a contract with Henningson, Durham and Richardson of Omaha, said Lab Associate Director Vincent O'Leary. The in-depth study will take about four months to complete and will cost \$98,990. It will be funded jointly by BNL and Brookhaven Town, with New York State expected to provide part of the Town's share of the cost.

The consulting engineering firm will determine whether it is economically and technically feasible to establish a "Municipal Solid Waste to Energy Generating Facility" at or near the Lab site. Such a plant would use refuse from the Town, either as wet garbage or in some processed form such as Refuse-Derived Fuel (RDF) pellets, as fuel to produce steam and generate electricity.

In order to make a recommendation, the engineering firm will have to consider both the waste disposal needs of the Town, and the energy requirements of the Lab. Although similar plants are now operating in other parts of the country, there are numerous technical, environmental and economic variables which could influence the feasibility of this particular project.

Among the many areas to be studied are the characteristics of the solid and liquid wastes produced by the Town, projections for future waste generation, and the cost of other means of disposal. The study will also investigate the possibility of using wastes from other municipalities as well, and will identify potential secondary energy users for excess steam or electricity which might be produced. In addition to energy production, the facility could be designed to provide recovery of recyclable materials such as glass and metal, if the study shows that there is a sufficient market for them and that the revenues from their sale would justify the cost of recovery.

If the facility were deemed feasible, explained O'Leary, it would not be built or operated by the Lab. The plant would be built either on-site or immediately adjacent to it, and the Lab would be a paying customer which would buy the steam and electricity produced by it. The facility itself would probably be built and operated by an independent third party under contract with the Town, although Town ownership and operation might also be a possibility.

According to Brookhaven Town Supervisor John Randolph, the Town's solid waste disposal is presently handled at the Brookhaven Landfill Site in the hamlet of Brookhaven. Currently, more than 1,150 tons of solid waste are deposited each day in the landfill, and more than 60,000 gal-

lons of liquid waste per day are generated in the Town. Based on preliminary evaluations, this amount of waste appears to be enough to fill all of the Lab's energy requirements.

The firm of Henningson, Durham and Richardson was chosen to conduct the study from among 23 firms which submitted proposals. Selection was made by a ten-member evaluation board composed of Lab and Town representatives. BNL personnel serving on the board were M. Joseph Rose (chairman), John Hennessy, Robert Terwilliger, Alfred Mahlmann, and William Rogers.

If the consulting firm determines that such a project would indeed be economically and technically feasible, then it will be up to the Town to proceed with it and arrange for the building and operation of the plant, said O'Leary.

The final cost of the steam and electricity produced by the facility, and the assurance of reliable production, will be vital in determining whether BNL will take part in the project. But O'Leary stressed that the potential cost savings are not the prime factor in BNL's interest in the proposed facility.

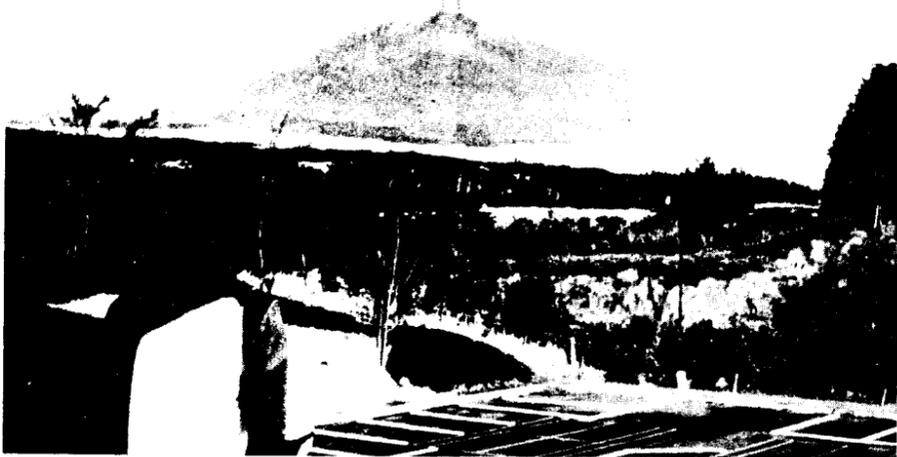
"We're not really looking for electricity that costs less," he said. "Even if the price were the same as what we pay now, there would be two major advantages to buying from such a facility. For one thing, we'd be helping to cut down on the country's dependence on foreign oil, by not using such oil to heat our buildings and not using electricity that was produced by burning foreign oil. And we'd also be helping the Town of Brookhaven to get rid of its garbage in a useful and environmentally sound manner."

### BNL Lecture

Melvin Month will present the 162nd Brookhaven Lecture on Wednesday, January 24, at 8 p.m. in Berkner Hall. He will discuss "Everything You Always Wanted to Know about ISABELLE... But Were Afraid to Ask." The lecture had previously been scheduled for December 13, but was cancelled due to a power loss at the Laboratory that day.

### Salant Memorial

A memorial service will be held in the North Room of the Brookhaven Center, Brookhaven National Laboratory, at 4:30 p.m. on Tuesday, January 23, for those who wish to pay their respects to the memory of Dr. Edward O. Salant. Members of the general public, as well as Laboratory employees, are welcome to participate in the memorial service.



Peter Soo looks out at Mount Fuji from the conference center. He said it was a particularly beautiful and tranquil setting for their meeting.

## Japan's New Train Based On Employees' Idea

Another visitor to Japan in November was Gordon Danby (Accelerator Dept.) who had been invited by the Japanese National Railway to attend a seminar and a test demonstration of Japan's new magnetically levitated and propelled train. Both he and Jim Powell (DNE) had been invited, but Powell was unable to attend.

How did they get involved with trains? It all started nearly 20 years ago when they were both bachelors and shared a house. Powell read where someone had proposed a permanent magnet system for trains and first got interested in the subject. As an avocation, they both started to work on this idea and their combination of talents eventually led to their being granted a patent on a magnetically levitated and propelled train system.

They tried to interest some American companies in the idea but there were no takers. But the Japanese had started a major research and development program and saw the advantage of this levitated system. Japan's invitation to them to see the new

train was in recognition of their original work in this field.

According to Danby, the system works this way: Powerful lightweight superconducting permanent magnets mounted on the train move over metal loops on the roadbed. Currents are generated in the loops by induction. The vehicle is suspended about one foot in the air. The suspension geometry is arranged so that if the vehicle moves sideways or up and down, powerful induction forces are generated which automatically restore it to its equilibrium position.

A completely separate set of propulsion motor windings in the roadbed carry alternating current which interacts with the ends of the suspension magnets to propel the train forward.

Very little energy is consumed, except for overcoming air friction, so that up to approximately 300 mph, such trains could be very efficient.

In the case of sudden "quenching" or

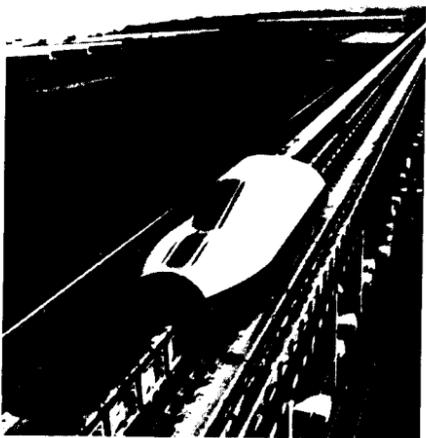
(continued on page 2)

**Japan's Train** (Cont'd)

loss of current in the superconducting magnet wire, loops of pure metal wound in parallel ensure a slow decay of lift force, permitting time for stopping safely.

At Miyazaki, Japan, Danby saw a 10-ton train on a 4-kilometer test track, whizz by with a quiet whoosh at 350 kilometers per hour. Next summer, the Japanese will test the vehicle on a seven kilometer track and expect it to reach a speed of 500 kilometers an hour. Then they plan a full scale operation on a 40 kilometer track.

Japan's "Bullet" trains have long been famous, but they have gone as far as they can go, says Danby. The levitated system is a big advance over the traditional steel-on-steel. Trains are popular in Japan and, in August, over 17,000 tourists came to Miyazaki to see the latest model. Danby is not optimistic that such a system would catch on in the United States.



The new magnetically levitated and propelled train on the test track at Miyazaki, Japan.

**Assertiveness At BNL**

Another series of Assertiveness Workshops conducted by Francine Berger has been scheduled. The Workshop Meetings will be held on February 16, 23, and March 2, from 12:30-2:00 p.m.

The employees who attended this program last spring felt it was a valuable and rewarding experience.

The objective of the workshop is to improve the participant's ability to communicate and interact with others, both on the job and in their personal lives.

This program is open to all employees work permitting. Enrollment forms are available at the Personnel Office reception desk and must be completed by Monday, February 5. For information please call Robert D'Angio, Ext. 2878.

**On The Aisle**

As its first production of the new year, the BERA Theatre Group presents Jay Presson Allen's play, "The Prime of Miss Jean Brodie," the final two performances of which will be given tonight and tomorrow in Berkner Hall at 8 p.m.

The Group gives a "professional performance of a good but difficult play," according to Anthony Fainberg, Nuclear Energy Department, who reviewed an opening-weekend production. "It's a pleasure to see," writes Fainberg, "especially when most of the players are among one's own colleagues."

Director Roscoe Mack "succeeds admirably" while overcoming such technical difficulties as a hall unsuited to intricate staging and lighting, in addition to casting and directing a demanding script so as to bring out the playwright's nuances.

Portraying Jean Brodie, a teacher in a Scottish girls' school, Denise Dew-Hughes "develops the character as fully and as convincingly as did Maggie Smith in the film version." Almost constantly on stage, she "holds the audience spell-bound throughout the play." Lois Pike, as Miss MacKay, the schoolmistress, is "a perfect foil for Ms. Dew-Hughes in the verbal duels which punctuate the action."

Carolyn Henck plays Sandy, a schoolgirl who, over the years covered by the play, develops from a child to a precocious yet mature woman. Carolyn "rises beautifully" to the challenging role.

Special mention goes to David Dew-Hughes (real-life husband of Denise) who is "superb as Brodie's staid lover" and to Philip Schewe, making his first acting ap-

**PINY Courses**

Professor John Lamarsh, Head of the PINY Nuclear Engineering Department, will be in the DEE-Oceanographic Sciences Division conference room from 6:00 to 7:00 p.m. on Monday, January 22 to register students.

PINY courses to be offered at BNL this semester are: NU 604, Nuclear Engineering Lab. II. Monday, D. Rorer; NU 716, Reactor Heat Transfer (no day decided yet), W. Wulff; NU 731, Nuclear Chemical Engineering, Thursday, F. Hill; and NU 619, Introduction to Thermonuclear Power, Wednesday, K. Chung. Schedules are subject to change upon consensus of instructor and students.

These courses are available to BNL employees, guests and collaborators, and to a limited number of persons not affiliated with the Laboratory.

**Tutorial Classes**

New classes are starting next week under the Technician Tutorial Program. These classes are designed to give advance preparation in basic mathematics or other subjects to employees intending to take college, technical or other courses. They should also assist people who are preparing for the high school equivalency test. For information, call LeRoy Jefferson at Ext. 2527 on Tuesdays and Wednesdays, or Robert D'Angio at Ext. 2878, on other days of the week.

**Cooking Exchange**

The International Cooking Exchange proudly presents Jacqueline Newman as guest demonstrator on Wednesday, January 24.

Well-known teacher and lecturer, Mrs. Newman, has recently been elected to the membership of Les Dames de Cuisine. She will be demonstrating some of her super-deluxe Chinese recipes.

Don't miss this once-a-year occasion! The session will begin at 12:30 p.m. in the Recreation Building. Admission is 75¢ and babysitting is provided at 25¢ per child.

**I.B.E.W. Meeting**

Local 2230, I.B.E.W. will hold its regular monthly meeting on Monday, January 22, 1979, at 8 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the President's report. *Please note the date.*

pearance here, who is "impressive as the unconventional lover and artist." Novices Connie Fuchel and Ron Ruth are "delightful" as nun and journalist.

The schoolgirls, portrayed by Antoinette Pisano as Jenny, and Lauletta and Tina Pfister as Monica and Mary, round out the major characters with professional ability.



Denise Dew-Hughes and Philip Schewe in "The Prime of Miss Jean Brodie." —photo by Rosen

In short, according to Fainberg, BERA's presentation of "The Prime of Miss Jean Brodie" is "an excellent production of professional quality; it is well worth seeing." Tickets may be purchased at the door (\$3 general admission, \$2 students and senior citizens) or they may be reserved by calling Ext. 2920.

**BERA Hosts Pianist**

German pianist Justus Frantz will perform on Friday, February 2, at 8:30 p.m. in Berkner Hall as the third in a series of concerts sponsored by BERA. Frantz, an internationally renowned artist, will perform Duport Variations by Mozart, the



Justus Frantz

Sonata in G Major by Schubert and the Symphonic Etudes by Schumann.

As a young musician, Frantz was granted a fellowship in 1967 by the Studienstiftung des Deutschen Volkes and received a prize in the International Musician's Competition in Munich in that same year. In addition to frequent appearances within the state-sponsored program "Concerts with Young Musicians" in 1968 and 1969, Frantz accepted numerous concert engagements in both Europe and in the United States with such conductors as Herbert von Karajan, Carlo Maria Giulini, Bernard Haitink, Rudolf Kempe and Leonard Bernstein.

Frantz, who is well known due to his television and radio performances, made his New York debut in 1975 with six performances of Dvorak's piano concerto with the New York Philharmonic under Leonard Bernstein. The artists later recorded the concerto. Frantz was the first artist honored by the Philharmonic with so many concerts. The pianist has also recorded compositions by Mozart with Christoph Eschenbach.

Admission to the February 2 concert is \$4 for the general public, \$2 for persons over 65 and for students with an ID, and \$1 for those under 18. Tickets are available at the door.

**Land of Rising Sun** (Cont'd)

which could be sizeable. It is also customary for group leaders in Japan to buy expensive gifts each New Year for their workers. Personally, I think it's a wonderful idea and have told my boss so.

In most restaurants and stores my Chinese ancestry was a distinct disadvantage since waitresses and shopkeepers would invariably turn to me when a language problem developed in our group. My apologetic responses in English caused a few raised eyebrows and quickly confirmed that I was just another "foreign devil."

However, my appearance did cause some amusing incidents. One day in Tokyo as I was walking to my hotel I was stopped by a little old lady who asked me for what I presume were directions. My response in English caused a minor disturbance. Her eyes bulged, her jaw dropped, and she turned and fled down the street.

The first general meeting of the conference was held in Tokyo and we had a good opportunity to compare this city with New York. In summary, Tokyo was much cleaner, more crowded, and a lot more modern. The traffic was, of course, extremely busy and the Kamikaze taxi drivers were everywhere. Auto accidents, however, are much less common in Japan. I was told that if a person is incapacitated for life in an accident, the offending driver is legally required to financially support that person indefinitely. So it is clear why the Japanese take driving very seriously. In "fender-bender" type accidents the Japanese are greatly disturbed when they damage another car. It is common for drivers to insist that the other person accept "sorry money" for damage done to his vehicle.

Apparently, destruction of someone else's car is considered to be very dishonorable. A sense of honor is one of the most important factors in Japanese life, as in most Oriental cultures. If a person commits a serious crime he shames not only himself but his entire family, including his parents and grandparents. This prospect of loss of honor is an effective deterrent to crime even in modern Japan.

Another interesting custom in Japan occurs at the end of each year. At this time the people invariably settle all their financial debts. Although it is not a legal requirement it is the accepted and honorable thing to do. People then start off the new year with a clean record.

Throughout Japan the act of tipping for services received is unnecessary and might even be considered insulting. This applies to all taxi, hotel, restaurant and other services. At one restaurant where we left a tip we were pursued through the department store by a waitress who insisted that we take back our money.

Taxi drivers are also extremely polite in Japan. One driver could not understand our directions and took us twice to the wrong hotel. After finally arriving at the right place he apologized for the inconvenience and promptly gave us a partial refund of the fare we initially paid. Could you imagine this happening in New York?

Long distance travel is not usually done by car since Japan lacks a comprehensive road system similar to the American inter-

state highways. Usually, the electric powered bullet trains are the most convenient modes of travel. The two most famous trains are the "Hikari" which cruises at 125 mph on the Tokyo-Osaka run and the "Kodama" which we travelled between Tokyo and Kyoto. Since the latter train has more stops it has a slower maximum speed, but it was a wonderful experience combining a smooth ride and very comfortable seats. Bullet trains, or any Japanese trains for that matter, are seldom more than a few minutes late. If a train is late by more than an hour then a passenger may demand reimbursement of his fare.

After the technical meetings at Fuji, we visited several industrial organizations including the Mitsubishi company in Nagasaki. Nagasaki was devastated by the atomic



Don Schweitzer's "atrocious" Japanese elicited no response from the Kyoto traffic cop, and for good reason. It is a mechanical policeman set up at the crossroads, apparently, to act as a reminder to drivers.

bomb in 1945 but owing to the fact that it is situated around a bay in a hilly region, large parts of the city remained intact. Today, Nagasaki is a very busy and beautiful city.

After two weeks of traveling throughout Japan, the American contingent had a very good assessment of the status of Japanese reactor technology. We were impressed and learned a great deal. It was a most rewarding visit and the hospitality of our hosts was overwhelming. Although we went to attend technical meetings, we felt that the greatly increased understanding we obtained of the Japanese people and their culture was of equal importance. —Peter Soo

**Arrivals & Departures**

**Arrivals**

- Jutta L. Becker.....Biology
- Elizabeth A. Condon.....Supply & Materiel
- Albert P. Dickman.....Physics
- Walter H. Doyle.....Accelerator
- James M. Forkin.....Ph. & Gr. Arts
- Dolores Goreczny.....Energy & Env.
- Betty P. Kwan.....Physics
- Richard Maskiewicz.....Chemistry

**Departures**

- Stacey L. DeCaro.....Biology
- Carolyn L. Smith.....Appl. Math.

# BROOKHAVEN BULLETIN

Published weekly for the employees of  
BROOKHAVEN NATIONAL LABORATORY

**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

## Letters To The Editor

To the Editor

The Laboratory's response to the death of my wife, Joan Redzinak, on December 31, 1978 was heart-warming and very appreciated. Joan's mother, Katherine Zielen, and I want to thank all of her Brookhaven friends who came forth on this sad occasion. Thank you.

George Redzinak

To the Editor

I would like to thank those people from BNL who helped make my retirement a memorable occasion. I will never forget my years at Brookhaven. Thank you and good-bye.

Marion C. Willigan

## Reminder To Aliens

Each year immigrant and non-immigrant aliens who are in the United States on January 1, must report their addresses to the U.S. Immigration and Naturalization Service during the month of January. This regulation applies even though there may have been no change of address.

Any alien who is temporarily absent from the country must report his or her address within ten days after his or her return to the United States.

The parent or legal guardian of alien children under fourteen years of age must report for these children.

Alien address report forms are available from any U.S. Post Office through January 31. When completed, the card should be stamped and mailed to the address indicated.

## Stony Brook Events

**Monday, January 22**

**Film:** "Black Modern Art," featuring artists Dana Chandler, Valerie Maynard and Leroy Clark, 7 p.m., 236 Stony Brook Union. Artists will speak after film.

**Tuesday, January 23**

**Art Exhibit:** "Shirley Gorelick, Paintings from 1971-1978," Feb. 21, Art Gallery, Fine Arts Center. Hours: Fri., 7-11 p.m.

**Wednesday, January 24**

**Film:** Felix Green's "Tibet," 7:30 p.m., S-218 Social & Behavioral Sciences. Sponsored by Asian Student Assn., the U.S.-China People's Friendship Assn., Social Sciences Interdisciplinary Program.

**Film:** "East of Eden," starring James Dean, 7 and 9 p.m., Stony Brook Union Auditorium. General admission, 50¢ at door or at SBU Ticket Office.



Registration for the Dance Club's next series of ten Hustle lessons will take place Wednesday, January 24, at the Reception Desk in the lobby of Berkner Hall from noon to 1 p.m.

Intermediate Classes will be held on Wednesday evenings in the North Room of Brookhaven Center from 7:30 p.m. to 8:30 p.m. in the "Street Hustle." The Beginners Class in the "Brooklyn Hustle" will be from 8:30 p.m. to 9:30 p.m. also on Wednesday evenings. The charge is \$30 per couple, payable in advance, for the series of lessons taught by Peter Satterly of the Starr Studio. Classes are limited to 25 couples each. The first lesson will be given Wednesday, January 31. Call Marge Stoeckel, Ext. 2459 for additional information.

## New Craftsmen



Diagnosing a problem with a chilled water pump in the Physics Department's engine room are Refrigeration and Air Conditioning engineers Jerry Pringle (left) and James Dosch (right) and supervisor Jose Medina. Pringle and Dosch recently completed the four-year Craft Apprenticeship Training Program sponsored by the Lab. "Program graduates are fully trained craftsmen, well acquainted with Lab machines and Lab problems in their field," noted Peter Paige of Personnel. "Because of their training on-site," he continued, "graduates of the program are very valuable to the Lab." Pringle, currently at the AGS, and Dosch, in Chemistry, agree that it "feels good" to have their training period behind them; "and," said Dosch, "because we move around so much, we have a good understanding of the whole site, which is an additional advantage of the program."

—photo by Rosen

## Film Service Specials

Two Kodak specials are being offered at the BERA Film Service Office from now until March 16:

- 1) Three copies of print ordered will entitle you to a fourth copy free of charge.
- 2) If you order three color enlargements, from either negatives or slides, a fourth will be given at no additional cost.

Rae Stelts at the Film Service Office, Ext. 3347, will be happy to fill you in on any further information.

## Reprints Anyone?

Have you asked an author for a reprint recently? Did you get an answer? Stop and think - did you sign the request card? The Research Library frequently receives reprints in response to unsigned cards. Neither the author nor the Library can get this material to you if you choose to remain anonymous.

## Bowling

### Red League

Congrats to the 76'ers who won the first half. The Old Timers won the match 8-3, but it wasn't enough. J. Fontana had 641 gross pins, R. Adams a 224-557 scratch, and R. Larsen 621 gross. The Anachems downed the Freon Loaders 9½-1½. A great night for R. Wilson with a 244, 590-680 series. T. Prach grossed 634 pins and J. Kelczewski had a 204.

The Designers and Sandbaggers split 6-5. The Sandbaggers had a 1123 game, and 3078 pins. D. Hayslip had a 203 game 581-689 series, and E. Sperry grossed 618. C. Bohnenblusch (200-202) grossed 646. R. Meier had a 201 and grossed 636. K. Riker grossed 624 and A. Dick, 620. This Isa Team lost their match to the Cosmos 3-8. Now for the second half???

### Pink League

The Lickety Splits won the first half with good bowling by Helen Keeley, 188/195/527, Marie Grahn, 165 and Pat Castleman, 140.

Nancy Overton had a very good series of 173/155/166/494 and Fran Briening had a 220 scratch, 270 gross game. Good games were also bowled by Renie Rosati 166 and

## Table Tennis Club

After a period of interruption, the Club has moved its facilities into the old exhibition hall building directly across the street from the Research Library. Tables are set up all the time, and playing conditions have been improved. Ladder tournament activity has been resumed. A meeting will be held at noon on Wednesday, January 25, in the above mentioned building to discuss future matters. All old and new members are encouraged to participate. Please contact C. Zein at Ext. 3950.

## SoHo Artwork At BNL

"The SoHo Selection," a group of contemporary work selected from exhibits at the Nancy Hoffman and O.K. Harris Galleries, will open Thursday, February 8 in Berkner Hall. Sponsored by the BERA Art Committee, further details regarding the show will appear in future *Bulletins*.

## Sale of Motor Vehicles

Four vehicles, located at Warehouse T-87, will be available for public sale. Inspection will be permitted from January 22nd through January 26th, during the hours of 9 a.m. to 4 p.m., except Saturday and Sunday.

Bids will be opened on January 30, 1979, at General Services Administration, Business Service Center Bid Room, 26 Federal Plaza, New York, N.Y. This will be an informal competitive bidding. Bid forms may be obtained at Buildings 87 and 211. For further details, please call Extensions 2302 or 2977.

## Volleyball

### Mixed League

#### Division A

On January 8, 1979, Family Affair shone over Nuclods: 15-9, 15-13, 15-5. Oceanography swam over the Popovers: 15-4, 15-2, 15-4. No Names took all three games from the Diamonds: 15-12, 15-13, 15-13 and Lookin' Good beat the Nuts & Bolts: 15-10, 9-15, 15-5.

#### Standings

Family Affair	6-0
Oceanography	6-0
No Names	5-1
Nuts & Bolts	4-2
Lookin Good	2-4
Nuclods	1-5
Diamonds	0-6
Popovers	0-6

#### Division B

Leftovers over Nads: 10-15, 15-13, 15-1, while Medical swept the LeMufs: 15-8, 15-6, 15-0. Balls & Strikes shone over the Wisa's: 15-5, 15-8, 15-13.

#### Standings

Balls & Strikes	11-1
Medical	8-4
Leftovers	6-6
Nads	5-7
LeMufs	3-9
Wisa's	3-9

### Employees League

On January 10, 1979, the Spikers took all three from Toga: 21-9, 21-17, 21-16. The Bumps bumped out the Atom Spikers: 21-13, 21-10, 21-9. Phoenix beat Cool Tools: 21-12, 21-12, 15-21.

#### Standings

Spikers	25	2	.926
Bumps	22	5	.815
Toga	13	14	.481
Phoenix	12	15	.444
Atom Spikers	6	21	.222
Cool Tools	3	24	.111

#### Note:

There will be a major college volleyball tournament in Newark on March 2nd and 3rd. The teams involved are Rutgers, Ohio State, UCLA and USC. Call John Usher (Ext. 2096) for more information.

## Cafeteria Menu

### Week Ending January 26, 1979

#### Monday, January 22

Corn chowder	(cup)	.30
	(bowl)	.40
Beef chop suey on rice		1.30
Scrambled eggs, sausage & fr. fr.		1.15
Hot Deli - turkey	(on bread)	1.25
	(on roll)	1.35

#### Tuesday, January 23

Beef noodle soup	(cup)	.30
	(bowl)	.40
Knockwurst & sauerkraut		1.15
Roast chicken w/stuffing & 1 veg.		1.20
Hot Deli - Veal & peppers hero		1.25

#### Wednesday, January 24

Cream of potato soup	(cup)	.30
	(bowl)	.40
Braised meatballs a la mode w/buttered noodles		1.25
Broiled filet w/fr. fr.		1.25
Hot Deli - Roast beef	(on bread)	1.25
	(on roll)	1.35

#### Thursday, January 25

Chicken vegetable soup	(cup)	.30
	(bowl)	.40
Cheese ravioli & 1 veg.		1.10
Sauerbraten & potato pancake		1.45
Hot Deli - Grilled Reuben		1.25

#### Friday, January 26

Fish chowder	(cup)	.40
	(bowl)	.50
Spaghetti w/clam sauce		1.10
Breaded pork chop & 1 veg.		1.50
Hot Deli - Smoked baked ham	(on bread)	1.25
	(on roll)	1.35

## 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.

888. SENIOR STATIONARY ENGINEER, GROUP LEADER - Plant Engineering Division.

889. PLUMBER, GROUP LEADER - Plant Engineering Division.

890. STOCK CLERK (three positions) - Supply and Materiel Division.

891. LABORATORY CUSTODIAN (four positions) - Plant Engineering Division.

892. SECRETARY - Requires excellent technical typing skills, shorthand, and ability to handle extensive detail. Will work as group secretary for solid state physics group. Physics Department.

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

893. TECHNICIAN - Will operate copying, duplicating and bindery equipment in Quick Copy Service Center. Experience with this type of equipment desirable. Must be willing to work nights. Driver's license required. Photography and Graphic Arts Div.

894. TECHNICIAN (weekly or monthly) - AAS degree in electro-mechanical technology or equivalent experience. Experience with pumps, valves, gauges, lathes, milling machines and drill presses required. High vacuum, electronics and instrumentation experience highly desirable. Physics Department.

895. MECHANICAL TECHNICIAN - Requires AAS in mechanical technology or equivalent experience. Experience in cryogenics, silver brazing and helium mass spectrometer leak testing would be desirable. Accelerator Department.

### Autos & Auto Supplies

SNOW TIRES - (2) A78-13, used 3 mos. \$18. Yukio, Ext. 3817.

77 TRANS AM - white on white, 4 spd, fully loaded, ex-con. \$5800 firm. 473-3150 after 5.

69 CAMARO - Rally Sport, 4 new tires, new clutch & fly wheel, motor recently overhauled. \$1500. Ray, 234-0288.

70 MERCURY CYCLONE - std trans, w/smashed fender, runs well. \$125. Ext. 2951, 281-5827 after 6.

74 TOYOTA CELICA GT - 5 spd, stereo, gauges, mint cond. \$2600. Brian, Ext. 4121.

SNOW TIRES - 2 new Michelin 165SR15, 2/\$90; 2 Goodyear Suburbanites, used, 165-15, 2/\$10; 1 Goodyear 165SR15, new, \$40. Raka, Ext. 4727.

77 CHEVY BEAUVILLE VAN - 12 psgr, 6 cyl manual, a/c, ps/pb, AM/FM cassette, 5 tires + snows, excel cond. \$5500. Ext. 2918, 286-1278.

76 PINTO - 40,000 mi, 4 cyl, 30 mpg, runs well. \$1650. Cathy, Ext. 4093, 732-6262.

76 CHEVY VAN - V8, std, bubble windows, roof vent, spare. Asking \$3900. Doreen, Ext. 2466.

71 VW SUPERBEETLE - 12,000 mi on new motor, all new parts, tires, excel running cond. \$1000. 821-9419.

CARBURETOR - Holly R-6210-AAA, 650 CFM, 4 bbl, dual floats, new, never used. \$55. Frank, Ext. 4112.

73 MATADOR - excel shape. \$1250. Chris, Ext. 4612, 281-7379.

TIRES - (1) HR78-14 steel belted radial, \$10; (1) GR78-14 Uniroyal snow, \$15; (1) Philco in-dash AM push-button radio. Chris, Ext. 3919, 929-4310.

68 COUGAR 302 - 4 spd, gauges, more, must sell. \$500. Chris, Ext. 4612, 281-7379.

72 VOLVO - 4 cyl, excel cond. \$2300. Helen, 281-7159, Ext. 2204 eves.

73 DODGE DART SPT - a/t, ps/pb, AM/FM, new radials, a/c, clean. Asking \$1795. Pat, Ext. 4628, eves 286-8490.

71 OPEL 1900 WAGON - a/t, rebuilt eng, new exhaust, 2 new tires. Dave, Ext. 3403, 286-0703.

TIRE - brand new JC Penny Sport 165-13" w/rim for Ford Cortina. \$15. Dick, Ext. 7766.

TIRE CHAINS - size 6.50-13, 6.45-14, 5.60-15, etc, excel cond. \$10/pr. S. Katcoff, Ext. 4341, 475-4005.

78 TOYOTA COROLLA - 4 dr sedan, 5 spd, rad tires, radio, 17,000 hwy mi, low 30 s. Ext. 2337.

74 FIAT 128 - 2 dr sedan, 58,000 mi, excel cond, new front end, valve job, brakes, muff, batt, AM/FM/cassette. \$1500. 286-0384.

68 DODGE VAN - in recent accident, repairable, can be driven, 20,000 mi on rebuilt eng, a/t, lifetime batt, new water pump, carb, fan belt, winterized, 6 glass belted tires (2 snows on rims). \$650 or highest bidder. Frank, Ext. 3254.

77 TOYOTA COROLLA - 1200 cc, 5 spd, radials, AM/FM, snows, EPA rated 49 mpg. Asking \$3100; 1971 Austin, needs work, \$150. Ext. 2022, 283-6732.

66 CHEVY BELAIR - 6 cyl, 4 dr, a/t, snows, 85,000 mi. \$150. Peter, Ext. 4360.

76 VOLARE - red, 2 dr sed, fold-down rear seat, 4 spd overdrive, a/c, ps/pb disc. Ext. 3504, 878-1013.

75 CHEVY CAPRICE CLASSIC - 4 dr, new radial ply tires, V8, a/c, ps/pb, fully loaded. \$3000. John, 924-4262.

TIRES - (5) L78-15 fiberglass belted on Blazer wheels, new, sell as set only. \$250. 363-2940 after 6.

NEW & USED TIRES - rims, repairs, mag wheel service, reg, radial, Dunlop-Gillette, free instal, balance avail. Fred Usack, Ext. 4597 lunchtime, 475-4935 eves.

WHEELS - (4) 6x14", stock rims to fit 73 Olds. \$20. Jeanne, Ext. 2364.

78 MERCURY MARQUIS - AM/FM stereo, a/c, 15,000 mi. \$5000. 821-0080 after 5.

RIMS - 4 new white spoke, 15"-5 lug, fit Bronco, Jeep, Scout. \$100 firm. Don, Ext. 3397, 289-0265.

FACTORY REBUILT VW CARB - new, 30 Pic 3. \$40. 981-7024.

68 CHRYSLER NEWPORT - good running cond, body has very little rust, good rubber. \$500. 345-2350.

64 PONTIAC GTO - tri-power, 4 spd, 1000 mi on eng, posi, like factory new. \$2000. Gene, 981-4657.

71 PEUGEOT 304 SW - about 75,000 mi, very economical local transp. Best offer. Ext. 2914, 286-3742 eves.

69 MGB-GT - white, wire wheels, eng very good, radio. \$1250. Gar, Ext. 4387.

74 VEGA - 4 spd, 4 cyl, new tires & brakes, AM/FM 8 track stereo, 4 extra tires, excel cond. \$1000. John, Ext. 3284, 475-8380 after 5.

72 E100 FORD SUPERVAN - 6 cyl, std trans, radio, 6 ply tires, spare & bracket, ladder & pipe rack. Asking \$1750 firm. Ext. 2350.

4 TIRES & RIMS - size 7.00-15, 6 ply, very good cond. \$75. R. Logan, 727-1851.

77 PORSCHE 924 - yellow/blk int, stereo tape deck, touring pkg, 18,500 mi, excel cond. \$9500. 473-6212 after 6.

76 YAMAHA 400RD - 7200 mi rebuilt eng, 2 cycle, 700 mi on rebuilt. Asking \$750. Mike, Ext. 2290, 929-4716 after 6.

69 FALCON STATION WAGON - p/s, a/t, good cond. \$450. Yoshiki, Ext. 4008.

69 DODGE WAGON - good eng, new trans, brakes & other, inspected, reliable trans. \$450. George, Ext. 2674/3010.

73 COUGAR - XR7, 351 V8, pw, ps, pd, ac, am/fm stereo tape. \$2600. Bob, Ext. 2546.

### Boats & Marine Supplies

72 FIBERGLASS CARAVELLE BOAT - 65 hp Johnson motor, trailer, fully elec equipped, all access, excel cond. \$2500. 734-5513 after 5.

12' FIBERGLASS - w/trailer, excel cond. \$275. Keith, 727-3719 after 5.

11' SAILBOAT & SAIL - fiberglass over wood, good cond. 289-0925 eve.

### Miscellaneous

HOCKEY TICKETS (2) - Lab seats, Islanders vs Buffalo, March 31, \$10 ea. David, Ext. 4394.

MAGNATRAC - 16 hp crawler tractor with 1/2 yd bucket on front end loader, very low hrs. David, 537-0937 after 6.

SEWING MACHINE - Morse zig-zag, excel cond. \$50. Jan, 981-4509.

FIREWOOD - seasoned oak. Full cord, \$95; half cord, \$50. Jim, 286-9700.

2 GUINEA PIGS - lovable adult males, plus compl set-up: aquarium, dish, water bottle, food & cage litter. \$15. Chuck, Ex. 4331, 698-0710.

SCUBA DIVING REGULATOR - Poseidon brand w/US divers pressure gauge. 744-1081 after 3 pm.

MEN'S ICE SKATES - size 9, hardly used, \$5; couch, \$20. 727-1617.

BEDS - 2 full size, w/metal box spring & matt, wooden frames, \$20 ea; 2 fold-always & matt; AM radio, out of Ford Econoline van, hardly used, \$10. 281-0360.

FIREWOOD - seasoned oak, 4'x8'x18", \$50 delivered; 4'x16'x18", \$90. 924-4284 after 5:30.

LESLIE ORGAN SPKR - Model 120, 2spd, for all organs, excel. \$125. R. Hildenbrand, Ext. 3273.

CONSOLE STEREO - AM/FM, 8 track/recorder, turntable, Mediterranean style, excel cond. \$125. 727-7450 eves.

CONN ALTO SAXOPHONE - used for 1 mo. Cost \$375, make reasonable offer. John, Ext. 4539/4540.

BASSINET - JC Penny white w/wicker inserts, good shape. \$25. Chris, Ext. 4612, 281-7379.

ELECTRONIC FLASH - Kalimar Strobe A, for Kodak Instamatic, used twice, \$15; 3' diam straw target, \$10. L. Corliss, Ext. 4376/4438.

FIREPLACE - Atlanta free standing, used less than 1 yr. 924-7929 after 6.

FIELD GLASSES - good for child, \$3; water purifier, \$25; manual typewriter, \$35. Claire, Ext. 3655, 281-2002.

STUDIO COUCH - 34x74, w/back cushions & corduroy spread, good cond. \$50. 475-8971 after 6 pm.

SKIS - Head std, 190 cm, bindings & leather boots, size 8. Mark, Ext. 3946.

2 END TABLES - Med, & coffee table, 2 lamps, excel, \$250; typewriter, needs roller, \$25; deep fryer, new \$10. Ext. 3848, 472-0553.

MINOLTA 35MM CAMERA - w/case, in excel shape. Only \$75. Ext. 3928, 744-7958.

DOLLHOUSE SHINGLES - 2 sizes of redwood or pine. \$1.75/bag, covers 144 sq in. Jim, Ext. 3307 lunchtime, 698-8990 eves.

GE ELEC STOVE - \$40; boy's coat size 6, \$5; Gerry carrier, \$10; stroller, \$25; car seat, \$15; potty chair, \$5; swing, \$10. Terry, Ext. 2945, 744-4594.

ALUM STORM WINDOWS - triple track, white, used one season, size 28"x55". \$15 ea. Joe, Ext. 2795.

FIGURE SKATES - men's blk, size 9, 1 pr, \$7; size 8, 1 pr, \$7; size 8, 1 pr, \$5; Reidell size 5, w/covers, 1 pr, \$10. Fred, Ext. 4407.

CLOTHES DRYER - Sears portable, 110 v, gold. Any reasonable offer. Ron, Ext. 4636, 281-6630.

RIFLES - (2) Browning .303 Win. bolt action w/4X scope, \$325; Winchester Mod. 94, .30-.30, \$125. Ext. 3570, 744-9746 eves.

CARPET & PADDING - approx 80 yds, \$4/yd; dbl dresser & mirror, like new, \$200; asstd Heywood-Wakefield colonial furn. 744-8680.

ICE SKATES - boy's hockey leather, size 2, 3; boy's blk figure, leather, size 1, 3. \$5/pr. Ext. 3300, 924-6977.

FRE PUP FOR ADOPTION - 6 mos old, Lab & Shep, all shots. Elaine or Tony, 864-4661 after 6.

WHITE DBL BEDSTEAD - Ethern Allen, \$25; blk wrought iron stand, \$8; cherry drop leaf end table, perf cond, \$40. Ext. 2910, 286-0866 after 6.

SEARS BUNK BEDS - w/dresser, closet & bookcase, cost \$500, sell \$350; snare drum, \$35. 281-1862.

NEW KILN - unused, for home use, w/access, \$475; Anderson permanaroline picture sash 5'8"x4'6", new, unpainted, \$140. 924-6582.

SKI BOOTS - Caber Delta, new, never used, men's size 9. Cost \$150, sell \$90. M. Rizzi, Ext. 2352.

MAPLE TWIN BED FRAME - w/headboard, \$15; formica top round end din table, 29"x59", \$20; both excel. Dick, Ext. 7766.

VOLKSWAGEN DECANTER - filled with 1/2 qt of Jim Beam Bourbon. \$20. Gordon, Ext. 4095.

COLONIAL SOFA & ARM CHAIR - excel cond. \$150. D'Aprile, 722-4625 after 6.

PR BUCKLE SKI BOOTS - Kastinger size 6, w/alum boot carrier, excel cond. \$20. J. Ridgeway, Ext. 2452.

SKI BOOTS - Montini, size 7 1/2, practically new. \$25. Joan, Ext. 2340.

4 DBL HUNG SASH & FRAMES - alum, for masonry walls, 37 1/4" w x 41" h, can be adapted to wood frame structure. \$15 ea, 4/\$55. Pat, Ext. 4519.

AMAZON INDIAN BOW - arrows & quiver. \$15. Mary, Ext. 4215.

POMERANIAN PUPPIES - Pocket Powder Puffs, mini sized, maxi hearted. 744-4779 after 5.

ORANGES/GRAPEFRUIT - \$6.50/\$5.75 per box, 3/4 bushel, order now for delivery Feb. 26. Glenn, Ext. 3336.

FISH TANK - 29 gal w/wrought iron stand, \$35; women's set of golf clubs w/case, never used. 281-8977 after 5.

LYMAN - compl reloading equipment, dies, all cal. \$75. Schmidt, Ext. 4586.

BOXER PUPS - fawn & brindles, docked, cropped & shots, excel background. \$175 ea. 265-1072.

OAK DESK DRAWERS - approx 100, all sizes, will negotiate. 751-2867.

MAPLE DRESSER - 2 lg & 2 sm drawers, w/mirror, solid piece of furn, top needs refinishing. \$35. 929-4716 after 6.

GIVE-AWAY - have new baby, must find home for 5 year old beautiful blk cat, is housebroken. 345-3220.

ICE SKATES - size 5, women's figure skates, worn once. \$15. P. Oster, Ext. 4763.

TAPE RECORDER - Wollensak portable open reel player/recorder, \$40 or best offer; bed rails, put on bed to prevent young children from rolling out of bed, fits any bed, \$3. Alan, Ext. 2928, 821-0761.

HOCKEY SKATES - Bauer teenage size 8, \$5; men's pac boots, green, size 9, \$5. Joe, Ext. 3273.

DUPLICATOR - Accura Duplivar, variable magnification, for 35 mm SLR cameras. \$20. Mike, Ext. 7941.

STARR FASTENING GUN - for fastening wood to cement, \$50; circular saw, 7 in, 1 1/4 hp, 2 blades, Craftsman, \$25. Frank, Ext. 4839, 732-4224.

RECORDS - approx 150-1950's records (45 rpm), oldies but goodies. Best offer. Ext. 3480.

21" ELEC STOVE - 4 burner, white, good cond. Asking \$75. Joe, Ext. 4134.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue.

Real Estate

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

For Sale

SHOREHAM - custom colonial, 3 bedrms, 1 1/2 baths, den w/fp, eik, formal d/r, full bsmt, 2 car garage, patio, 0.43 acre, deeded beach rights. \$64,990. 744-1081 after 3 p.m.

CALVERTON - 3 bedrm ranch, oil fired heat & water, s/s, fin bsmt w/bath & kitchen, 1 acre prop. \$34,000. 727-9058.

CENTEREACH - 4 lg bedrm colonial, 2 yrs old, cathedral ceiling, dbl garage, prime area, relocating, must sell! \$35,990. Reduced \$9,000. 698-5475.

MASTIC BEACH - long-line ranch, 2 over-size bedrms, cabinet-lined kitchen, formal d/r, den, full bsmt, baseboard heat, 1/4 acre. \$27,995. 281-5498.

ST JAMES - Head-of-the-Harbor, custom farm ranch, 1 mi from priv beach, 6 bedrms, 5 baths, 3 fp, on 2 + heavily wooded acres, variance for horses, all appliances. 584-6058 or 981-1327.

SHIRLEY - 3 bedrm ranch on 1/2 acre, l/r, d/r, w/w, den w/fp, 4 appl, fin bsmt w/bath, kitchen & prvt entrance, att garage. \$30,000. 281-8016.

SHOREHAM VILLAGE - lg Clarendon custom colonial, 4 bedrms, 2 1/2 baths, den w/fp, eik, formal d/r, 1 1/4 wooded acres, deck, walk to tennis, beach, country clubs. \$80,000 reduced. 744-1935.

BAYPORT - California ranch, 3 bedrms, 1 1/2 baths, l/r, kitchen, dinette, w/appl, fin bsmt w/bar, fenced-in back yard, garage, 75x150 plot. \$35,000. 472-0035.

SWISS CHALET - on 10A, abutting forest preserve, 95 mi - NYC, taxes \$300. \$35,000. Ext. 4586, 681-7868.

E. PATCHOGUE - must sell, 3 1/2 yr custom built over-sized 9 rm wide ranch, prime area, 4-5 bedrms, 2 1/2 baths, huge eik, d/r, 2 dens, 2 garages, appl, carpeting, beautifully landscaped. 289-0443.

ROCK PT - The Tides, 70' ranch on 1/2 acre, 3 bedrms, l/r, d/r, den w/fp, eik, 2 full baths, oak floors, patio, full bsmt. \$45,000. 744-6482.

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

E. PATCHOGUE - 10 rm colonial, beautifully landscaped, rock garden, gazebo, 1.4 acres, horse country, 4 bedrms, 30' l/r, fp, d/r, laundry rm off kit, 2 garages, full bsmt. Low 60's. 475-0168.

### For Rent

E. PATCHOGUE - La Bon Vie II, 3 rm apt to sublet, adults only. H. Morris, 475-2260. Avail Apr 1.

PT JEFF - 1 bedrm apt w/balcony. \$250/mo incl heat. Sam, Ext. 2675.

SHIRLEY - 2 bedrm apt, all util, no pets, 5 min to BNL. \$200/mo. 281-4392 after 6 p.m.

SOUTHAMPTON - efficiency apt, 1 mi from college w/BNL car pool potential. \$145/mo incl util. Avail mid Jan. John, Ext. 2070.

WADING RIVER - 4 rm apt, appl & util incl, priv entrance. \$295/mo. Avail Jan 20. Rae, Ext. 2387, 929-8846.

MT SINAI - 1 rm furn efficiency apt, priv entrance, female preferred. \$185/mo, util incl. 331-2779.

SHIRLEY - 3 rd person to share house, 10 min from Lab, avail Feb. 1. \$150 pays all. Ext. 3992, 399-1257.

HOUSE - fully furn, immediate occupancy until 5/79, Cape Cod, 5 yrs old, w/gargae, 15 min from Exit 70 IIE. \$175/mo + util. 543-7464 after 5.

FURN HOUSE - 4 bedrms, close to schools, shopping, beach, Feb-Aug. Ext. 4521.

E. PATCHOGUE - furn 2 bedrm house, for 9 mos starting 3/1/79. \$250/mo + util. 286-0606.

### Wanted

WALL FABRIC HANGER - Janet, Ext. 2345 or 929-8152.

ROOMMATE - \$120/mo rent, incl util for apt in N Shirley. Dennis, Ext. 2614.

HANDBALL PLAYERS - for regular lunch-time exercise on site. Jerry, Ext. 4082.

RIDE - to Vermont or New Hampshire on weekends, willing to share cost & driving. Camille, Ext. 4421.

67 OR NEWER VW BUG - prefer needing work, will pay reasonable price. 589-9103 eves.

CLEANING PERSON - 1 day/wk