

All In The Family

To commemorate the 30th anniversary of the start of construction of the Brookhaven Graphite Research Reactor (BGRR), the Exhibit Center will open its doors exclusively to Lab personnel and their families on Sunday, October 30. As everyone must know by now, the BGRR hasn't operated as a reactor since 1968 and has recently become the home for exhibits and models of Brookhaven's research.

Because most employees have not yet had a chance to see what progress has been made on the transformation of the "Old Graphite Reactor" to an Exhibit Center, the Public Relations Office has arranged this special "open house." Although the transformation is far from complete, the Exhibit Center, after only one year of operation, is on its way to becoming an exciting and educational scientific exhibition. The Public Relations Office will welcome your ideas on the further development of this special project.

Employees and their families are invited to come on down any time between 10 a.m. and 3 p.m. on Sunday, the final day of the 1977 tour season. After a showing at Berkner Hall of the 15-minute slide presentation *Quest*, you will board buses for a conducted tour of the site. You may pick up a lot of information you didn't know before. What do they do at the Hot Lab? Do you know where the AGS beam stops? Where is the cyclotron?

The tour of the Exhibit Center will give old timers and newcomers alike, the op-

portunity to see a record of the accomplishments of the early days; the work currently being done in the various departments; and some of the research plans that stretch into the future.

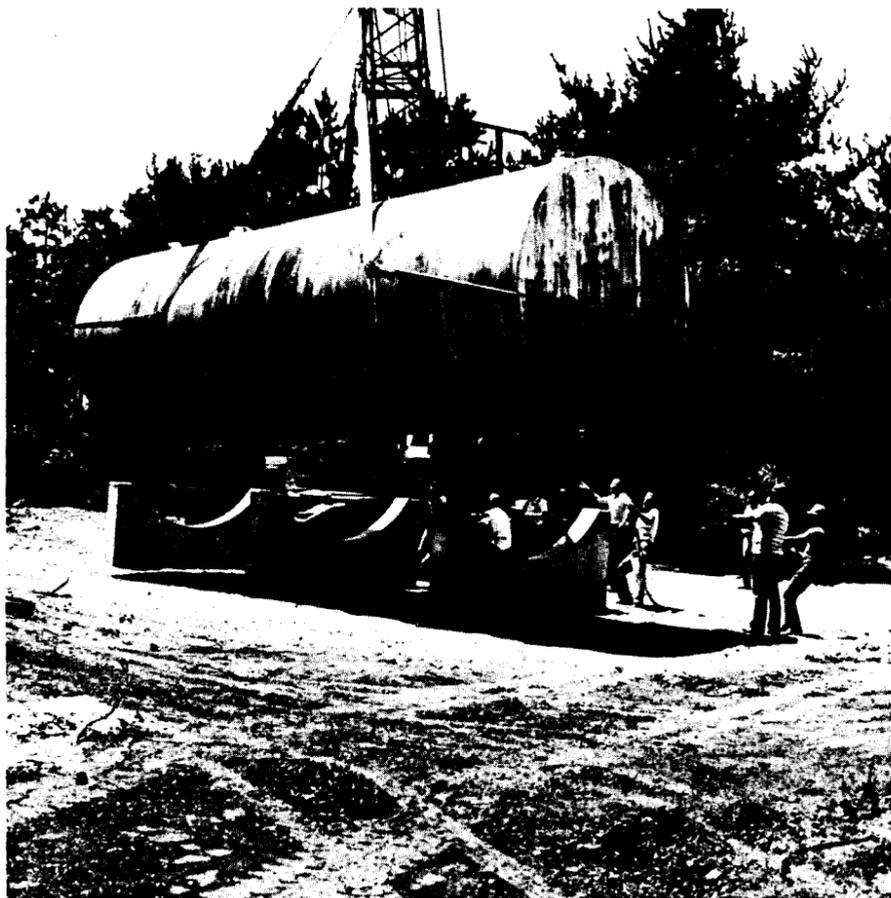
Everyone will enjoy playing tic-tac-toe with the computer and taking a computer quiz about research at BNL. Its quiz programmer, Bob Warkentien, has also added a couple of off-beat touches which will amuse you.

For your further pleasure, free apple cider, coffee and doughnuts will be served on pumpkin bedecked tables in the lobby of Berkner Hall.

If you haven't been a winner of the New York State Lottery, cheer up, you may be the winner of the Exhibit Center Raffle, which will entitle you to dinner for two at the Dining Car 1890 in East Setauket.

Starting today a different photograph will be run each week for three weeks in the *Bulletin*. Identify the picture and mark it on the coupon provided. At the end of the three weeks, staple the coupons together and bring them with you to Berkner Hall on October 30. At the end of the afternoon, a drawing will be held and the winner announced. (The first picture to be identified accompanies this story).

Mark down the day, Sunday, October 30. It's bound to be a nice crisp fall day and, if you wish, bring a picnic lunch. After all, it can't rain every weekend. Snack bar service will also be available at the Cafeteria.



Several months ago, the Site Maintenance Rigging Group relocated the 20,000 gallon storage tank for the ALF system at the rear of the Central Steam Plant. The oil and alcohol is first placed in this tank and then it is pumped through pipes to a blender for thorough mixing. From there it is recirculated back into the tank and after several more passes through the mixer, it is discharged into other storage tanks for direct transmission to the Central Steam Plant. Above (from left to right) are: Frank Strelecki, Stan Kalinowski, George Guydish, James Winters, Mike Perrier, Frank Magnani, Pete Bilski and John Sterzenbach. The crane operator is Ben Belligan.

—photo by Rosen

An Ingenious Mixture

Since May 1977, approximately 250,000 gallons of a selective mixture of fuel oil and alcohol has been burned in the Central Steam Plant. Known in Plant Engineering as Project ALF, for "Alternate Liquid Fuel," this is a blend of reprocessed industrial alcohol, for instance from cosmetic manufacturers, and substandard fuel oils obtained from government surplus, or other sources such as Navy Special, Bunker C and #6 oil from tank and barge bottoms.

Project ALF has several advantages. It not only reduces the operating costs of the Laboratory, but is environmentally sound. The sulfur content is well below acceptable levels. It makes use of what would otherwise be waste products which would require disposal. In addition, the Laboratory is helping to reduce the amount of oil that needs to be imported.

The idea of exploring such a process originated with M. J. Rose, Superintendent of Utilities in Plant Engineering, who developed the proper blend with the assistance of Tom Fitzgerald and Jack Hennessey. Associate Director Vincent O'Leary lauded them for their imagination and perseverance. "They spent many a night and weekend developing this process," he said, "and they deserve a lot of credit."

After numerous bench tests, laboratory analysis and trial firing of AFL fuels in our boilers, the tendency for the alcohols to separate from the mix, with any of the fuel oil involved, was resolved by improved methods and processing system design. The alcohols can now be fully integrated with any one or more of the petroleum stocks available. These alternative liquid fuels have been subjected to a wide range of temperatures and have maintained their mix.

ALF has similar characteristics to grades 4 and 5 fuel oils but costs only 14.5 to 20¢ per gallon, compared to 40¢ per gallon for virgin fuel oil. To date, the burning of this blend has resulted in a saving to the Laboratory of \$53,000. Based on the known fuel sources available, another 800,000 gallons of ALF will be processed by the end of 1977 for a total projected savings of over \$238,000.

Extensive field and laboratory tests conducted in early 1976 resulted in a pilot

processing system design utilizing standard hardware. The equipment was obtained primarily from the Department of Defense and General Services Administration excess equipment lists.

The layout and construction of the system was made simple and effective by the combined efforts of Bob Terwilliger, Bill Fleischer and Stan Dobzeniecki. Insulation and further heating modifications have now been added to the ALF system to keep it operational year-round and up to its full capacity of 40,000 gallons a day when required.

Lecture Cancelled

"The Big Accelerators - Probes in Understanding Matter," a lecture by Melvin Month on Tuesday, October 18, has been cancelled. It is unknown at this time if the lecture will be rescheduled at a later date.

Nobel Prizes Awarded In Physics & Chemistry

The Swedish Royal Academy of Sciences announced on Tuesday that three physicists will share the Nobel Prize in physics and a Russian born Belgian scientist will receive the prize in chemistry.

Dr. John H. Van Vleck of Harvard University, Sir Nevill F. Mott of Cambridge University and Dr. Philip W. Anderson of Bell Laboratories, were honored for their early fundamental research in solid state theoretical physics which led to the development of many devices in modern electronics. Professor Ilya Prigogine of the Free University of Brussels was cited for "his contributions to nonequilibrium thermodynamics, particularly the theory of dissipative structures."

On learning of the awards, Laboratory Director George Vineyard said, "All four are well known to us and we think the Academy made excellent choices."

The three physicists were honored par-

(Continued on page 2)

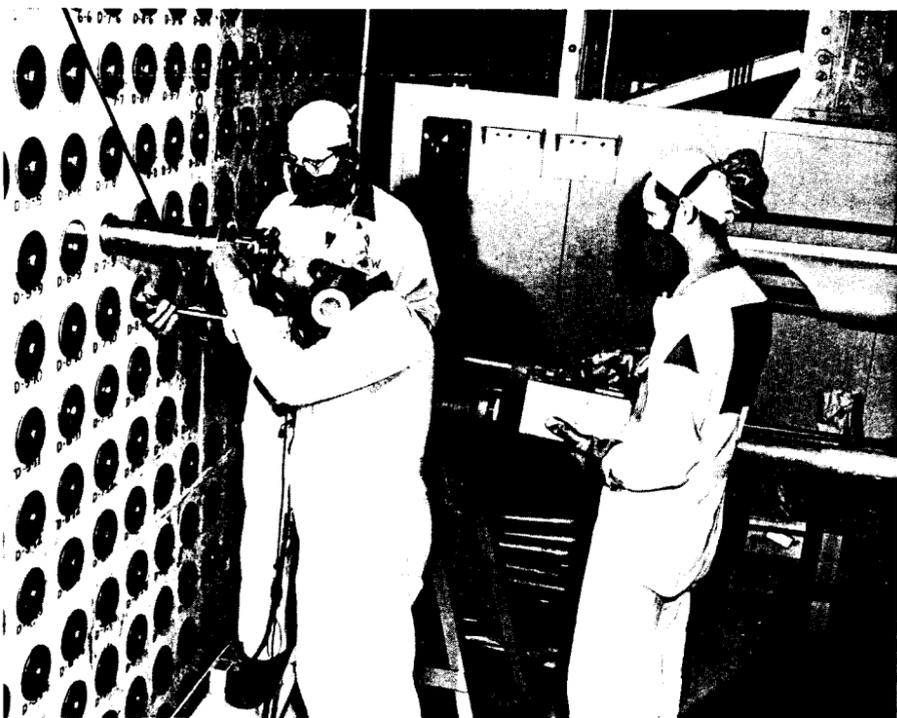


Exhibit Center Raffle

①

Name Lab. Ext. Home Tel.

This photograph is:

- A scene from "Run Silent, Run Deep," a war-time submarine movie starring Clark Gable.
- The charging face of the Brookhaven Graphite Research Reactor where technicians David McCutcheon, Lowell McLean and Warren (Bud) Green are replacing fuel elements (1950's).
- A little known photo of three Martians who wandered into the reactor after their spacecraft landed on the lawn.

Clip out and save. Other photographs will appear on October 21 and 28. When all three are identified, staple them together and bring them with you to the Center on October 30. The drawing for dinner for two at the Dining Car 1890 will be held late in the afternoon and the winner notified by telephone.

Arrivals & Departures

Arrivals

David A. Barge	Accelerator
Thomas T. Boles	Biology
Victor Cassella	Plant Engrg.
Gyorgy Hegyi	Biology
William L. Keith	Accelerator
Steven H. Moss	Reactor
William E. O'Grady	Energy & Environ.
Ronald E. Ondrovic	Contracts & Proc.
Pravinkumar P. Parekh	Chemistry
Erwin S. Rodger	Accelerator
John G. Skora	Plant Engrg.
Marian Strzelczyk	Accelerator
Laurie B. Westdyke	Nuclear Energy

Departures

David A. Hickman	Chemistry
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Reports Available

The following reports are now available to the Laboratory Staff and to Affiliates of the ERDA, AUI, and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. Staff members should call Ext. 3484.

BNL 50669	\$4.00
Regenerative Process for Desulfurization of High Temperature Combustion and Fuel Gases. Quarterly Progress Report No. 4, January 1 - March 31, 1977 A.S. Albanese, et al.	
BNL 50675	\$4.00
Data Report Meadow/Marsh/Pond System M. Small and C. Wurm	
BNL-NUREG-50683	\$7.75
Reactor Safety Research Programs. Quarterly Progress Report, April 1 - June 30, 1977 Compiled by A.J. Romano	

Runners' Corner

The following are the results of the races held on October 2, 1977. The list includes BERA members and family only. Complete results including age category places will be mailed with the certificates. In the case of the 30 km pace race, the times indicated are the difference between the predicted finishing time and the actual recorded time.

5 km		
Overall Place	Name	Time
9	Rowland Hautsch, DEE	20:03
12	Tom Ruth, Chem.	21:05
14	Hugh Isaacs, DEE	21:19
16	Richard Ehrenkauffer, Chem.	21:55
21	Peter Adams, Phys Rev.	22:24
24	David Alburger, Phys.	22:45
25	Frank Endres, S&EP	23:12
28	Lindsay Adams, Phys Rev.	23:14
29	Helen Duggan	23:15
34	Ed McDougal, DNE	24:17
36	Juanita Heyliger, TID	24:36
45	Bill McMahon, DEE	26:00
47	Sidney Fiarman, DNE	26:15
48	Tom Love, Phys.	26:24
49	William Love, Phys.	26:57
56	Claire Isaacs, DEE	29:47
59	Lisa Fuller, DNE	30:20
62	Mary Alburger, Phys.	39:55
10 km		
3	Thomas McMahon, DEE	38:38
4	Dave Edwards, ISA	40:38
9	Robert Swendsen, Phys.	43:01
10	John Millner, Phys.	43:06
14	Louis Adessi, AGS	43:38
16	Michael Kenny, Phys.	45:24
18	Cornell Cornish, DOE	45:35
20	James Guppy, DNE	46:38
21	Ron Weider, AGS	46:57
23	Elaine Landry, DEE	47:12
24	Peter Schmidt, Phys.	47:20
34	Gerald Kinney, DO	50:45
37	Denis Nordstrom, Phys Rev.	51:46
38	Mac Thomas, DEE	52:00
43	Terry Whittedge, DEE	53:39
56	Jack Bear, Phys.	57:13
58	Anne Nauman, Bio	58:05
63	Carol Swendsen, Phys.	60:20
30 km		
	Error (sec)	
1	Bill Thomlinson, Phys.	49
2	Jeremiah Sbarra, Med	60
8	Gus Prince, DNE	141
11	Ted Landry, DEE	195
14	Richard Fuller, DNE	299
15	Bill Kropp, DNE	328
18	John Duggan, Pl Eng.	355
19	John Ferrera, Pl Eng.	462
22	Charles Penoyar, DEE	590
23	Jean Burt, DNE	667
31	Gail Waite, DNE	1201
32	Sol Pearlstein, DNE	1631
33	Bill Piel, Phys.	2144

W.C. Hamilton Fund Makes Third Award

Mary Fronckowiak, a graduate student at the University of Buffalo, is the recipient of the third Walter C. Hamilton Memorial Scholarship. She arrived at the Chemistry Department last week and will spend about a month here working with Thomas Koetzle at the HFBR.

She is finishing her graduate study under Dr. Herbert Hauptman at the Medical Foundation of Buffalo and is interested in the further development of direct methods - a technique for solving crystal structure. At BNL she will test an extension of this methodology for the particular case of neutron diffraction.

Fronckowiak expects to receive her Ph.D. degree in crystallography from the University of Buffalo later this year. She was awarded a B.S. degree in mathematics from Niagara University in 1971.

The W.C. Hamilton Memorial Fund was established under AUI auspices in 1973 to honor the memory of Walter C. Hamil-



Mary Fronckowiak —photo by Rosenton, a senior staff member of the Chemistry Department who died on January 23, 1973. The scholarships provide assistance to students who wish to pursue neutron diffraction studies. The previous winners were Dag Semmingsen of the University of Oslo in Norway, and Raymond G. Teller, of the University of Southern California.

TUNE IN!

#471

I would like to know how the new mandatory retirement age to 70 years, would affect laboratory employees that are now required to leave at age 65. Does the Brookhaven Laboratory have to fall in line or are they exempt.

Answer:

The Laboratory is following the progress of the proposed Legislation concerning the change in the mandatory retirement age. The Bill approved by the Senate Committee is significantly different from the Bill approved by the House of Representatives and it is difficult at this time to predict what form the final legislation will take. Therefore, it is a little too early to give you a definitive answer.

Detour

The road off Bell Ave. in and around to the delivery area of the Medical Department (where construction is now in progress) will be closed as of Monday, October 24. However, access to the Medical Department delivery area will be possible by taking Rochester onto South Harvard and back into the delivery area. From Bell Avenue there will still be access to Biology. Any questions about the area to be closed can be directed to Al Delph in the Medical Department, Ext. 3650.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city Wednesday, November 2. Departure will be at 8:32 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than Friday, October 28. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you at the train station. Refunds will be made only if cancellations are received at least two days prior to the trip.

Radio Club

There will be a meeting of the BNL Radio Club on Wednesday, Oct. 19 at 12:00 noon in Berkner Hall room A. Anyone interested in amateur (ham) radio is welcome to attend. The club has excellent facilities in the recreation building in the on-site apartment area, and any members are free to use them at any time. CBers note: if you are tired of the crowded CB channels and would like to find out about ham radio, come to the radio club - we'll be glad to give you information and help in getting a ham license. If you can't make the meeting and would like more information, call Alan Bieber at Ext. 2928.

BERA Ticket Sales

Available at the BERA Sales & Services Office in the cafeteria building are tickets for the events listed below:

Islanders Hockey - priced at \$9.50

October
Tues. 18 Los Angeles

November
Tues. 15 Chicago
Tues. 22 Colorado

December
Tues. 6 Minnesota
Sat. 10 Detroit
Tues. 13 Chicago
Tues. 20 Colorado
Thurs. 22 St. Louis

January
Tues. 3 Vancouver
Sat. 7 Cleveland
Tues. 10 Colorado

February
Sat. 4 Washington
Tues. 7 Minnesota
Sat. 11 Detroit
Tues. 14 Los Angeles
Sat. 25 Chicago
Tues. 28 Toronto

March
Sat. 4 Pittsburgh
Tues. 7 Vancouver
Sat. 11 Buffalo
Tues. 14 St. Louis
Sat. 25 Cleveland

April
Sat. 1 Washington

Jets Football - priced at \$9.50

November
Sun. 6 Miami Dolphins
Sun. 13 Seattle Seahawks
Sun. 27 Pittsburgh Steelers

December
Sun. 11 Buffalo Bills

Metropolitan Opera
Family Circle Seats priced at \$7.50

October
Thurs. 20 Eugene Onegin
Wed. 26 Pelleas Et Melisande
Sat. 29 La Boheme

November
Wed. 2 La Boheme
Thurs. 3 Eugene Onegin
Thurs. 10 La Boheme
Mon. 14 La Boheme

December
Thurs. 1 La Traviata
Tues. 13 Madam Butterfly
Thurs. 15 La Boheme
Wed. 21 La Traviata
Sat. 24 La Traviata
Tues. 27 La Boheme

January
Mon. 16 Cavalleria Rusticana/Pagliacci
Thurs. 19 Cavalleria Rusticana/Pagliacci

February
Tues. 7 Adriana Lecouvreur
Tues. 14 Thais
Mon. 20 Otello
Wed. 22 Boris Godunov
Thurs. 23 Thais
Tues. 28 Boris Godunov

March
Wed. 1 La Favorita
Thurs. 2 L'Elisir d'Amore
Tues. 7 La Favorita
Mon. 13 L'Elisir d'Amore
Fri. 17 Adriana Lecouvreur
Wed. 22 Adriana Lecouvreur

April
Tues. 4 Tosca
Wed. 5 Cavalleria Rusticana/Pagliacci

The BERA Sales & Services Office is open Monday through Friday from 11:00 a.m. to 3:00 p.m. Call extension 3347 for further information on the above listing.

Nobel Prizes

(Cont'd)

ticularly for their work "concerning electron-electron interaction and the coupling between the motion of electrons and the atomic nuclei in magnetic and disordered materials."

Anderson was a student of Van Vleck's at Harvard during the 1940's and later, as a tenured visiting professor at Cambridge University, had a long association with Mott.

At Brookhaven, Lester Corliss, Chemistry Department, recalled his days at Harvard as a Ph.D. candidate when Van Vleck was his thesis advisor.

Corliss says that Van Vleck's approach to physical problems was highly intuitive. He used to say to me, "If you can guess the answer to a problem, it's just as good as solving it!"

He also has another story concerning Van Vleck's fame as a railroad buff. Apparently, many years ago, Van Vleck experienced an unexpected delay at a railway station in France. True to form, he used this time to successfully revise the time table for the French National Railway system. Corliss said it wouldn't surprise him at all if the distinguished physicist arrives in Stockholm for the presentation via train from Paris. Martin Blume, Physics Department, who studied under Van Vleck at Harvard remembers how the professor arranged a cross country railway trip for him on his way to Japan.

Van Vleck also represented Harvard at several meetings of the Initiatory University Group which led to the founding of Brookhaven. Anderson has been at the Laboratory several times and Mott was a member of the International Advisory Committee for the Conference on the Properties of Liquid Metals held here in 1966.

The winner of the Nobel Prize for chemistry, Dr. Ilya Prigogine, also spends part of his time as Director of the Center for Statistical Mechanics and Thermodynamics at the University of Texas at Austin. He is quoted in the New York Times as saying "I am interested in the origins of coherence," and that "Europe... needs more coordination between the people doing purely theoretical work and the applied scientists. American science has all the intermediate levels of organization as well. That's much healthier." Prigogine presented a physics colloquium here several years ago.

Concert

The Tokyo String Quartet will present a program consisting of Beethoven Op. 18, No. 1; Mozart's "Hunt" Quartet; and Brahms Op. 51, No. 2, on Wednesday, October 19, at 8:30 p.m. in Berkner Hall

Admission (General)	\$4.00
Block of 5 or more purchased at or before first concert	ea. 3.00
Students with ID and persons over 65	2.00
Persons under 18	1.00

Cafeteria Menu

Week Ending October 21, 1977

Monday, October 17	
Tomato bouillon	
Franks & beans	1.10
Barbecued fresh ham & 1 veg.	1.35
Hot deli - pastrami	
Tuesday, October 18	
Split pea soup	
Chopped steak & 1 veg.	1.10
Chinese pepper steak on rice	1.30
Hot deli - knockwurst	
Wednesday, October 19	
Puree of mongol	
Short ribs of beef & 1 veg.	1.30
Hot deli - Italian sausage & peppers	
Special	
Fried shrimp, fr. fr., cole slaw, Small soda or tea	\$1.87 plus tax
Thursday, October 20	
Cream of chicken soup	
Chicken cacciatore on noodles	1.15
Beef liver, onion & 1 veg.	1.15
Hot deli - roast beef	
Friday, October 21	
Clam & celery soup	
Pot roast & 1 veg.	1.30
Seafood cakes & spaghetti	1.10
Hot deli - smoked tongue	

BROOKHAVEN BULLETIN

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Volunteers Needed

Healthy men and women, non-smokers and smokers. For participation in a clinical environmental research study involving the measurement of the rate at which the lungs rid themselves of inhaled aerosol particles in normal subjects. For further information, please call Medical Research Center, 345-3692.

Chamber Music

The Sea Cliff Chamber Players will present the first of six Saturday night chamber music programs at Berkner Hall at 8 p.m. on October 22. The program entitled "The Slavic Spirit" includes Dvorak's Slavonic Dances (piano four hands), Bartok's String Quartet #4 and Tchaikovsky's Piano Trio. Tickets are \$5 for adults and \$3.50 for students under 21. A subscription rate of \$25 for the six concert series is available.

Rambling Around

These are bits and pieces picked up from here and there with occasional observations by the Editor:

- It may be that the "truth in lending" laws are putting too big a strain on the credit card people. Don Lazarus (Accelerator) received his monthly statement from BankAmericard which showed no finance charge due and what seemed to be an overpayment on his part. However, in order to make everything "perfectly clear" the statement was prefaced by the following:

"Because you have not made any transactions since our notice changing the method of determining the balance subject to finance charge for purchases, the finance charge for purchases listed below is not calculated as described on the reverse side of this statement. It is based on our prior method in which the periodic rate shown below is applied to the adjusted monthly balance, which is the previous balance, less payments, plus or minus credit or debit adjustments during the billing period."

The Lazarus' said "sure" and filed it away hoping for clearer days on the credit card scene.

- Mixed emotions are what a man has when he sees his new Cadillac driven over a cliff by his mother-in-law.

- **The Laws of Mathematics**

a. In any given miscalculation, the fault will never be placed if more than one person is involved.

b. Any error that can creep in, will. It will be in the direction that will do the most damage to the calculation.

c. All constants are variables.

d. A decimal will always be misplaced.

e. In a complex calculation, one factor from the numerator will always move into the denominator.

f. In any given computation, the figure that is most obviously correct will be the source of error.

Corollary 1: No one to whom you go for help will see it either, but everyone who stops by your desk with unsought advice will see it immediately.

- **The Harvard Law of Animal Behavior**
Under carefully controlled laboratory conditions, organisms tend to do as they darn well please.

- **The Law of Selective Gravitation**

A dropped tool will land where it can do the most damage.

—from the *Observer* (NRAO) Sept. 1977.

A Taste Of Things To Come



Brookhaven Avenue, Winter, 1956

Winter Is Coming

While you may be thinking of getting your warm clothes out of mothballs, it's also time to be getting your car in shape for the cold days ahead.

Laboratory vehicles are being prepared for the season snow tires, heaters, and antifreeze included.

The automotive maintenance shop requests that no water be added to cooling systems except in emergencies, and if such an emergency occurs, that they be notified so that antifreeze protection can be assured. This is good advice for all car owners.

Those who have **Inter Agency Motor Pool Vehicles** should also take the necessary precautions. Snow tires or chains, not both, and antifreeze can be obtained by contacting Richard Harrison at 125-995-3310, of the Sub pool at JFK Airport.

Gymnasium

The following gym schedule for BERA sponsored activities is now in effect.

Monday	Volleyball	5:00 p.m. to 9:30 p.m.
Tuesday	*Badminton Clinic	5:00 p.m. to 7:00 p.m.
	Tennis	7:00 p.m. to 9:30 p.m.
Wednesday	Volleyball	5:00 p.m. to 9:30 p.m.
Thursday	Basketball	5:00 p.m. to 9:30 p.m.
Friday	Soccer	5:00 p.m. to 7:30 p.m.
	Karate	7:30 p.m. to 9:30 p.m.
Saturday	Badminton & General Activities	10:00 a.m. to 1:00 p.m.
	Tennis	1:00 p.m. to 5:30 p.m.
Sunday	Gym is closed.	

All those participating in these activities are asked to please vacate the gym at the end of times scheduled. All doors, including locker rooms, will be locked promptly at 10:00 p.m. on weeknights and 6:00 p.m. on Saturdays.

*Badminton clinic will continue until Tuesday, November 15. The Tuesdays following, tennis will be scheduled from 5:00 to 9:30 p.m.

Football

Roga 19 - Quarks 6

Stan Gilbert and Leroy James (2) caught touchdown passes from Roga quarterback Lou Snead. Don Litcher scored the lone touchdown for the Quarks.

Slow Pokes 27 - Sweathogs 19

Bob Jansson and Charlie Johnson each scored 2 touchdowns for the Slow Pokes. Bob Petricek, George Schnaars and Tim Catchpole did the Sweathog scoring.

Slow Pokes 41 - Chickens 6

Greg Donaldson and Fletcher Johnson scored 5 touchdowns between them for the undefeated Slow Pokes.

Sweathogs 7 - Quarks 6

In this tight game, Bob Petricek scored the touchdown and John Ousley the important extra point for the Sweathogs.

Roga 25 - Tee Dees 12

Wayne Smith, Ted Daniels and Leroy James scored the Roga touchdowns as they remained undefeated.

Fuel Conservation

With the advent of the cold winter weather close at hand, Laboratory employees are again being requested to help conserve our heating fuel supplies. Where applicable, make sure storm windows are in place. Set thermostats to 68° maximum during working hours, 55° maximum at all other times. Employees are advised to wear a sweater or suit jacket if chilly.

Bowling

Pink League

Well, things are picking up! Four ladies had high games, Marie Brenner 170, Pat Oster 164, Helen Keeley 162 and Lindora Boyd 160.

The Lickey Splits are still in first place (hanging on) followed by the Odd Balls, Gutter Getters, Fiscal Assets, Pinsplitters and Personnelities.

Red League

A good night for the 76'ers, winning 11 points. J. Scesny had a 214 and R. Larsen a 208. W. Kollmer had a nice series and the Bubble Boys came out with 8.

The Anachems took the Sandbaggers 8-3, with C. Backsmith 75 pins over average. The Designers split their match 6-5 with E. Sperry having a 201. J. Roesler bowled 208 and H. Frei 204 but the Old Timers only came up with 4 points. The Freon Loaders took 3 for the night with F. Stahman having a 215 game. The Cosmos also took 3 points with J. Sheehan bowling 200 (626 gross). The Red League seems to be having a very slow start this year.

Purple & White League

The Alley-Oops are still in first place with the Jokers trailing by 1 point.

High games for the night were Bob Jones 222, Ken Asselta 202, Nancy Mayeski 187. High series were Bob Jones 548 and Nancy Mayeski 490.

Green League

The Blue Jays stayed in first place by taking 8 from the Cosmos. The Pinball Wizards and the Dyno-Mites are tied for second with the Dyno-Mites taking 7 from the Old Timers and the Pinball Wizards taking 8 from the Freon Loaders. For the Wizards, G. Meinken had a 227 while Frank Green rolled 219 and 221 games for a 612 scratch series. Nice bowling Frank. The Sparks had just about an even split with the Designers for five points. For the Sparks, B. Kristiansen had a 221 and J. Cochrane a 213. The Got-A-Hit-Ums took four with L. Jacobson's 201 game, as the Old Timers II got seven and B. Glen had a 204 game. The Trouble Shooters got zapped for eleven as the Pick-Ups took four.

Selected Reading

New Sci. 75, September 22, 1977

Garbage makes good roads. Tightening the energy screw yet further. 730

Physicists try to forget Vietnam. . . while promoting the neutron bomb. 738

Sci. Am. 237, October 1977

Peer review and the support of science. S. Cole, L.C. Rubin and J.R. Cole. 34-41

Basketball Tryouts

Dr. K. is looking for a few good players again and is therefore planning to hold tryouts in the gym on Thursday evenings, October 20 and 27, at 6:30.

Due to conflicts with football, the tryouts are being delayed until then even though the gym is open for use.

League play starts in November and everyone will be put on a team. The tryouts are only to insure that there will be a balance in strength between the teams.

Y'all come! We need all the help we can get.

Mountain Club

The Mountain Club will hold its next meeting at the Rec Hall on Monday, October 17, at 7:30 p.m.

The meeting is being held in the Rec Hall to familiarize members with the equipment in the lockers there.

Cleve Dodge will be showing his slides of the Baxter State Park trip. Other people with pictures from the trip are invited to share them.

Ideas for trips, especially day trips, are welcome. Please come join us.

Golf

Both the team and individual championships were decided last week. The Division II team champs, Tom Holmquist and Otto Kammerer, defeated Division I winners, Bernie Comfort and Peter Bond, to win the golf league team title.

In the individual final Dick Hildenbrand, the runner up last year, beat Les Lawrence in a close match.

An end-of-the-year tournament will be held at Spring Lake on October 20, and the awards banquet will be held on November 4, at the Recreation Building.

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. 2874 or 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

345. PAINTER A, GROUP LEADER - Plant Engineering Division.

346. DRIVER - Plant Engineering Division.

347. BUILDING AND GROUNDS UTILITY WORKER - Plant Engineering Division.

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

348. SENIOR PERSONNEL REPRESENTATIVE - Bachelor's degree or equivalent with background in a heavy public contact field. Requires ability to interact on all organizational levels. Employment office experience and broad knowledge of personnel operations is desirable. Employment Office, Personnel Div.

349. PHYSICS ASSOCIATE - BS in Physics or Chemistry having some background in computerized data bases. Will compile nuclear reaction data by scanning literature and coding data for computer processing. National Nuclear Data Center, Department of Nuclear Energy.

350. MATHEMATICS ASSOCIATE - BS or equivalent in Mathematics to perform nuclear design calculations for linear accelerator driven reactor. Department of Nuclear Energy.

351. TECHNICIAN - Employment experience in mechanical assembly and good skills with small power tools including some machine shop background. To work in machine installation, assembly, operation, and modification involving high voltage cable machinery. Power transmission project. Accelerator Department.

352. OFFICE SERVICES ASSISTANT - Part time position requiring previous office experience and good typing skills. Shorthand desirable. Director's Office.

Classified Advertisements

Autos & Auto Supplies

68 FORD 500 CUSTOM - Good mech cond, some body dents. \$400. Mitch, Ext. 3290.

68 FORD WAGON - High mi, mech good. 363-6940.

76 COROLLA LIFTBACK - Ac, am/fm stereo, snows, other extras. Best offer over \$3500. Dan, Ext. 2017 before 5.

72 SAAB - Needs clutch work, excel body, am/fm stereo, must sell. \$650. Rich, Ext. 2501, 924-4237.

73 VEGA - Manual shift, 54,000 mi, radio, new clutch/muffler, tailpipe, excel cond. \$750. Yashikuni Doi, 345 4278 or Ext. 3029.

TIRES - 9.50-16.50 It Goodyear hi miler, on 75 Ford truck rim. \$50 takes all. McAlister, 234-7225.

C4 AUTOMATIC TRANSMISSION - B & B built, 1000 mi & drive shaft & holeshot converter. \$200 takes all. Chris, Ext. 4612.

PEUGEOT DIESEL - 14,000 mi, still under warranty, loaded w/options. \$5990. Rich, Ext. 2965, Barbara, 924-4162.

72 DATSUN - 510 automatic, 37,000 mi, excel running cond, good in & out, great mileage. \$1550. 744-2821.

76 SUZUKI - RM250 motorcross, never raced, very good cond. Asking \$800. Mike, 473-2608.

75 PORSCHE 914 - 5 spd, maroon, excel cond. Asking \$5000. Bob, 744-8983, 473-5522.

67 MERCEDES 250S - Std trans, 4 dr, blue, good gas mi, excel cond. Asking \$2500. 473-7667.

71 CAPRI - Low mileage, 4 spd, radials, am/fm. Kim, Ext. 2468 days, 286-8490 eves.

74 OLDS CUTLASS - Ps/pb/ac, am/fm cassette stereo, 2 dr hdtp, must sell. \$2600. 727-4693.

TIRES - New Dunlop, all sizes, reg/snows/radial, free mounting & balancing. Fred Usack, Ext. 4579 lunchtime, 475-4935.

66 PONTIAC LEMANS - \$275. H. Rhodus, Ext. 3284, 924-3522.

72 FORD LTD - Ps/pb/ac excel shape. \$1000. Gary, 281-2319.

68 FORD LTD - Excel mech cond, body fair, good trans. \$375. Ext. 2534.

76 MT125 HONDA - On/off rd, low mi, mint cond. \$500. Marie, Ext. 3857.

67 DODGE CORONET 500 - Good run cond, good body/interior. \$300. Ext. 2206, 751-0833 eves.

68 CHEVY CAPRICE - Body fair, eng excel, new b joints/water pump. \$275. 744-2214 after 5 p.m.

75 FIAT 128 - 2 dr excel cond, extras. Ext. 3514, 286-8814 after 6 p.m.

72 CHRYSLER - 4 dr, ht, 44 eng w/class 3 hitch, ps/pb, automatic, snow tires & wheels. \$1400. 744-2725.

SNOW TIRES - (2) F78-14, not on rims, almost new. \$35/pr. J. Usher, Ext. 2096.

68 VW SQUAREBACK - Good body, run cond. \$350. Ext. 3128, 928-7344.

68 FORD FALCON WAGON - 6 cyl, new ft brakes, muffler & tail pipe, good cond. \$450. Ext. 3499, 929-6156.

69 OLDS 88 - Hdtp, blue, good cond, new tires. \$600. MO9-1874.

70 HORNET - 2 dr, std, 6 cyl, body & eng good, needs battery, 66,000 mi. Carl, Ext. 4615.

70 IMPALA - 350 hp, good work horse, body poor. \$250. 281-7844.

69 PLYMOUTH VALIANT - Radio, good tires, dependable trans. \$300. 473-9209 after 6 p.m.

MOTORS AUTO REPAIR MANUAL - 1973 edition. \$5. Howard, Ext. 4615.

71 CHEVY NOVA - 6 cyl, stand trans, good cond. Howard, Ext. 4615.

70 CHEVY STATION WAGON - Runs well. G. Raynor, Ext. 2268, 727-5194.

70 GREMLIN - Deluxe model, lg 6 cyl, luggage carrier, new brakes/clutch/alt/exhaust sys. \$850. George, Ext. 4460/4453.

71 FORD MAVERICK - Automatic, 6 cyl, 4 dr, new battery/muffler, body & trans need work. \$250. C. Nauman, Ext. 3412, 286-3764 eves.

TIRES - 1 pr 8.25 x 15 snow tires, used, good cond, \$25; 1 pr 7.35 x 14 snow tires, used good cond, \$20. Don, 3511.

70 PONTIAC CAT - Rebuilt eng, ps/pb/ac, 4 door, runs well, good town car. \$500. Ext. 4597.

68 FORD WAGON - Country sedan, 390 eng, 8 cyl, very good cond, new trans, ac/radio. \$550. Ext. 4762, 345-3192 eves.

69 FORD GALAXIE - Ps/pb/ac, new front tires & water pump. Steve, Ext. 3822, 929-6527.

FUSE KIT - Opel, Mercedes Benz, Audi, BMW, Porsche, NSU, VW, 604/kit; VW tune-up kit, 64-67, \$20. Ext. 3609.

69 VW BUG - Green, no engine, will sell whole or in parts. 929-4890.

64 PONTIAC WAGON - 67 eng, new batt, volt reg, coil, shocks, muffler, etc. Needs align & body work on passenger side. \$195. Walt, Ext. 2907, or 698-0576.

Boats & Marine Supplies

VHF/FM RECEIVER - Unimetrics 4-channel scanner w/WX1, WX2, CH 16, CH 22. \$70. Bill, Ext. 2603, HR3-1813.

FLYING JR - Fiberglass sloop, aluminum spars, spinner, trailer, many extras. \$750. Ext. 4597.

27 FT CUSTOM BUILT SLOOP - Mahogany & teak, sleeps 3, 22 hp Palmer auxiliary just rebuilt. \$2500. Jeff, Ext. 2953, 9-5, Ext. 2512 after work.

Miscellaneous

YARD SALE - Furniture & household items. Oct. 15 wknd, Port Jeff. 928-7344.

GROUP YARD SALE - Oct 15 & 16 from 10:00 a.m. to 4:00 p.m., 14 Maple St, Blue Point.

GARAGE SALE - Sat, Oct 15, 25 Thornhedge Rd, Bellport, 286-0866.

HAIR DRYER - Portable, prof. \$5; Magnavox hi-fi console. \$25. Roni, 586-3631 after 6 p.m.

ENGLISH RIDING APPAREL - Youth's size 8; young adult, size 10; boots, sizes 3½, 5, 5½; hard hats, size 6¾. 929-4530.

EDEN GREENHOUSE - 6' x 8' alum & glass, Empire liquid propane heater, equip. \$6. Irene Merritt, 589-5126.

BICYCLE - Men's 3 spd Raleigh sports model, 1 yr old, excel cond. \$75. Robert, 286-2265.

FREEZER - Upright commercial, United, 23 cu ft w/touch-a-matic defrost. \$300. Mickey, Ext. 3218.

OTTOMAN - Castro convertible, converts to a single bed, good cond. \$30. Cheryl, Ext. 2345, 286-1057 after 6:30 p.m.

LAWN MOWER - High power Yazoo, 24" cut. \$50. Ext. 3361, 878-0717.

ANTIQUE RADIO - Philco, 1920 vintage, plays well, extra tubes. \$50. Walt, Ext. 4504.

FIREPLACE SCREEN - Brass tarnish proof rim, black draw screen, 38" wd x 31¼", new cond. \$30. 289-6490.

BATHROOM SINK - Cast & por, (G.C.), \$10; sailmaking tools, needles, eyelets, etc, in wooden chest, \$15. 727-1617.

SLEEPING BAG - Down army air force arctic sleeping bag w/tie in liner. \$10. Joan, 744-3919 or Jack, Ext. 4447.

MATTRESSES - 2 foam (30" x 74"), \$5 ea; queen size bed (Englander), \$60; Flokati white rugs (8'x10") used, \$15; 6' x 4'6" new, \$20 ea. Ext. 4333, 654-4394.

UNIFORM - Jr girl scout uniform, size 10, blouse, jumper, & tie. \$5. Kinsey, Ext. 2902.

AMERICAN HERITAGE - Guide of the U.S., 15 vol; Amer Heritage history of the U.S., 15 vol, good cond. \$20 ea. Ext. 2350, 363-6379.

RUGS - Broadloom, approx 9' round, gold w/underpad, \$35; runner, gold 31½" wide x 20'5½" long, \$15. 325-1961.

LYMAN EASY LOADER - Shot shell 12 & 20 gauge. \$35. 878-1895.

SAW CHAIN - Sears Baracuda Oregon saw chain for 17" chain saw, like brand new. \$16. Bob Monaghan, Ext. 4688, 744-5098.

BETA MOPED - 17 mph, 150 mpg, like new. \$300. Robin, 286-8968 after 6 p.m.

SPIKES - Football or soccer, size 9½ brand new Pro-Keds. \$12. Bob, Ext. 4672, 929-4753.

TURNTABLE - Garrard 40B. \$10. Bill, Ext. 4173, 929-3029.

VIOLIN - Matheas Thoma model #20, full size, incl bow, case & extras, excel cond. \$90. 473-4477.

OLD BOOKS - Livermore's History of Block Island, orig printed in 1877, reprinted 1961, paper cover. \$5. Phillips, Ext. 4235.

MATTRESS - 4" foam, full size, ideal for station wagon/camper use, \$10; polaroid b/w camera, \$5. Ext. 2590.

HORSE - 9 yr old, grey mare, English/Western. LT9-9160 after 6 p.m.

BATHROOM SINK - White, wall mount, American Standard faucet & drain, excel cond. \$50. Walt, 369-7383, 8 a.m. - 3 p.m.

LAWNMOWER - Bolens 24" riding, old but good. \$125. E. Willen, 744-6423.

CHINA CLOSETS - 2 both 37" wd x 61" hg, front glass door. \$18 ea/\$30 pair. Gr5-4199.

CHAIRS - Victorian caned, mahog banquet table 42" x 96", brie & brac. HR2-0509.

SKI BOOTS - Henke leather buckle, lady's size 5. \$15. Georgia Irving, Ext. 2318.

KITCHEN SET - Round table w/exten, 4 chairs, steep stool chair. \$75. Ext. 3392, 475-8330.

FREE MALE CAT - Pure white, 7 mo old, needs a home. excel w/small children. 878-1060.

BICYCLE - Woman's, 3-speed, like new, w/basket & tire pump. 473-6770 after 6 p.m.

SMALL APPLIANCES - And various xmas gifts, reasonable. Angie, Ext. 3156.

STUDIO COUCH - W/foam rubber, brown, almost new, \$80; green tweed rug, 11' x 16'. \$35. 929-6932.

BABY CARRIAGE - \$20; air cond (19,000 btu's). 339-2108.

CAMERA - Polaroid 103 w/flash, good cond. \$30. 281-2208 after 4:30.

SUNBEAM MIXMASTER - 10 speed, needs servicing, \$15; meat slicing machine (all metal), \$20. Walt, Ext. 2907, 698-0576.

PIANO - Contemporary style, small keyboard, walnut bench. \$500. 928-2954 after 6 p.m.

WINTER COAT - Girl's size 14, excel cond. \$15. Fred, Ext. 4095.

DINING ROOM TABLE - Gate leg style, 25" x 40", opens to 40' x 95" to seat 12, 2 leaves, 2 chairs, table pads. Sarah, 475-2629.

WHEEL CHAIRS - 2, good cond; 3 comodas, leather chair when closed, almost new w/chrome legs. Grace, Ext. 2529.

OIL BURNER GUN - Weil-McLain, flame ret compl, Honeywell control, cadmium sulfide det, never used, make offer. Fred Kuehl, Ext. 4823.

PRAM - Good cond, \$10. 924-3178 after 5.

RECLINER - \$25; sofa, \$20; round table w/4 chairs, \$25; steel frame bed, \$20; end table, \$5; chest, \$15. Bill, Ext. 3933.

BABY ITEMS - Large dresser, carriage (like new), bucket car seat, elec sterilizer, stroller, toys, etc. Joan, 751-6559.

POSEIDON REGULATOR - W/pressure gauge, like new. Naomi, Ext. 3699.

TV - 25" color TV w/stereo/radio/phono, remote control. \$175. Ext. 3130/3998.

TRUMPET - King, excel cond, \$95; comp darkroom, Bogan, \$85. John Schmidt, 929-4450.

SKIS - 205 cm Ostryker 300's, never used. \$25. 821-1148 after 6 p.m.

REFRIGERATOR/FREEZER - 2 door, 14 cu ft. \$50. 473-7739.

DRESSER - W/hutch on top. \$30. 744-9498 after 6 p.m.

STEREO EQUIP - 1 Rotel 120 watt amp, 1 Sanyo 8 track player recorder 1 Sony reel to reel/7" reels, 1 turntable, 1 electrophonic am/fm 8 track receiver, 4 speakers. \$200. 924-0056.

STEREO RECEIVER - Sansui 4000, 45 watts/channel into 800 or 400 THD better than 4%, freq response 20-30 KHZ. \$350. Harry, Ext. 4680.

WINDOW - Used, Woodco, 48" x 55", 3 light, awning crank out type. \$35. Annamarie, Ext. 2352.

FURNITURE - Cocktail table & 2 matching end tables, beautiful cond. \$140. 286-8517 after 5:30 p.m.

VEGETABLES - Cabbage, cauliflower, onions, 10/25/50 lbs, pumpkins, 4/\$1. Tinie, Ext. 3696 lunchtime.

GE REFRIGERATOR - 15 cu ft, \$60; sofa, 6', autumn tweed Herculan, almost new, \$300. Ext. 3623, 286-1944.

GE FREEZER - 15 cu ft, excel cond. \$200. 363-2940.

CAMERA - Kodak Retina III S w/50 mm xenon lens. \$35. Bill, Ext. 4743.

MOVING - 15" B&W TV, GE, 10 mos old, \$60; elec iron, 10 mos old, \$5. Toshi, Ext. 3028, 345-4476.

BOYS CLOTHING - Navy wool blazer, bn vest, wh baseball jacket, almost new, size 10-12. Best offer. 286-3742 eves

MEN'S BICYCLE - 3 spd Schwinn, 26", excel cond. Bill, Ext. 4774.

TV'S - (2) B & W 19" portables, \$20 each; gold rug, oval shag, 9x12 w/pad, \$100. Ken, Ext. 4003/4581.

KARATE OUTFITS - 2 sets, med & sm, black w/white trim, never used. Asking \$12. Joe, Ext. 4069.

AMER FLAG - Nylon, new, \$12; fender mount mirrors, \$10/pr; fir trees, 24", 2 for \$5; artificial fireplace & elec logs, \$15. 727-1617.

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MASTIC BEACH - 2 bedrm, newly decorated, landscaped 50' x 200' beach priv, \$650 taxes. \$25,500. 281-6630.

MASTIC BEACH - 3 bdrm ranch, 1½ baths, 100 x 100 corner lot, near water, covered patio, fenced. \$31,000. 281-7531.

OAKDALE/IDLE HOUR - 3 bdrm ranch, enclosed porch/patio, garage, bsmt, ½ acre. \$38,000. 589-9103.

For Rent

VT CHALET - Furn, fp, fall color, hiking, skiing at Bromeley, Stratton, Killington, antiques. Rates for wkend, wk, or share season. 757-5599 after 4 p.m.

STUDIO APT - Ac, furn, priv entr, and driveway, quiet resid area, North Patchogue. \$255/mo util incl. Bob, 289-0357.

POCONOS CHALET - In priv comm, near Lake Wallenpaupack, all season rec, wks or wkends. 289-2159.

RIDGE - Townhouse, 3 bdrm, w/ac/5 appliances, shed, patio, wood, 5 min to BNL. Ext. 2589, 924-5919.

MASTIC BEACH - 2 bedrm apt. Mike, Ext. 4851.

ROCKY PT - 3 bedrm ranch, fp, walk to everything, new home, 10 min from Lab. \$390/mo + util. Bob, Ext. 3121, 744-5261.

S JAMESPORT - Small yr round cottage for individual or couple, 1 block to beach. Pat, Ext. 2046, 734-5226.

MT SINAI - New 3 bedrm colonial, basement, 2 car garage, oak floors. \$375/mo option to buy. 473-0871.

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