



Physicist Gordon Danby (kneeling) and Engineer Joseph Allinger check the installation of the 8-degree bending magnet in the North Experimental Area beam tunnel.

World's Largest Superconducting Accelerator Beam Dipole Magnet Operates Successfully At AGS

The largest superconducting accelerator bending magnet ever built is now operating in the new North Area beam of the AGS leading to the 7-ft Bubble Chamber. This magnet has a useful aperture of ≈ 7.3 cm, and is constructed in two sections with a total length of ≈ 4 meters which bend the external proton beam of the AGS through an angle of 8° .

This is the first superconducting magnet used in a primary proton beam and of a type which may be used in future accelerators.

The superconducting magnets are immersed in liquid helium at a temperature of 4.5° K above absolute zero (or about -452° F). They were designed to operate at twice the magnetic field of conventional magnets and have been tested successfully at a field of 44 kG. The magnet cores are fabricated from conventional low carbon steel plate. The superconductor is multifilamentary niobium-titanium wire in a 1:25 to 1 copper matrix and is a standard conductor which is readily available from industry. Relatively high purity aluminum is used between coil layers to provide helium coolant channels and also good thermal stability to the magnet. The two magnets are mechanically and magnetically very precise: the magnetic field characteristics of the two units agree with each other, and also with design computations to within about 0.01%. Magnet component design using readily available materials would permit routine production by industry.

Detailed design of the magnet, vessels, and auxiliary equipment which comprise the magnet system was begun about two years ago. Since this system was envisioned as a forerunner of more extensive superconducting magnet beam transport lines, considerable attention was given to making it a complete "on line" system which would require little direct supervision. A helium refrigerator located approximately 30 feet from the magnet and connected to the magnet dewars by liquid nitrogen shielded transfer lines provides the necessary cooling. The magnet dewars and refrigerator

comprise a closed loop system to which have been added auxiliary equipment for recovering and storing the helium gas. The magnet, refrigeration, and recovery systems are instrumented for automatic operation, and provisions have been made for computer monitoring.

The 8° magnet system was operated for ≈ 5 hours on October 31, and again for ≈ 5 hours on November 7, with beams up to full AGS intensity ($\approx 5 \times 10^{12}$ protons/pulse). During these runs, the magnets operated successfully even under conditions of abnormal beam heating. This capacity of the magnets to absorb large beam losses is very significant since hoped for future superconducting accelerators depend on a reasonable capacity to operate with heating due to sudden beam loss. This is the first experimental evidence anywhere bearing on this fundamental question.

The magnet system is the first of its kind, and uses a unique BNL design in which the superconductor is extremely well cooled. The mechanical precision of the two magnets compares favorably with the best conventional magnets. Other designs already exist on paper which will permit fields > 60 kG and even greater optical precision.

The photograph shows the 8° magnet system in the beam tunnel of the North Ex-

(Continued on page 2)

Fuel Crisis Now For Brookhaven Lab

As a local oil supplier said the other day, "We can fuel some of the people some of the time, but we can't fuel all of the people all of the time!"

The above paragraph is a bad pun, but does very well express the fuel situation that faces BNL in the coming months. There is less fuel available, and we will have to stretch out available supplies as much as possible or face the very real danger of running out.

The bulk of Brookhaven National Laboratory receives heat by means of steam generated in the Central Steam Plant. This plant operates on #6 fuel oil, which is much heavier than the oil used to heat most homes.

Even before the war in the Middle East, this oil was expected to be in extremely short supply in the Northeastern United States. Most of this type of oil has been supplied by the Arab nations and sold to Brookhaven by Northville Industries. If the supply from the far east continues to be shut off, all of the industrial users on Long Island will experience great difficulties in obtaining a substitute source for oil.

Brookhaven has storage facilities for 700,000 gallons of #6 oil. At normal rates of usage for this time of the year this would represent a 25 day supply.

However, through drastic measures such as reducing steam pressure in the mains, changing the operating mode of the boilers, closing down some buildings, and reducing temperatures in all areas of the Laboratory, the Lab has been able to reduce its average daily consumption from 28,000 to less than 20,000, extending the storage capacity to 35 days.

These figures, however, are for the weather that we are experiencing now. In the dead of last winter fuel consumption rates exceeded 35,000 gallons a day, reducing storage capacity at that time to only 20 days.

Because of shortages it has not been possible to maintain our tanks in a topped off state, and we have been supplementing our fuel supply by burning waste oil since last April. The waste oil cannot be used full strength, but can only be used as a 25% mix with the regular #6 oil.

To complicate matters, while we were the only people who could burn waste oil in the summer months, there are now many industries that want to use this oil, and it is becoming an uncertain source of supply. Brookhaven is also investigating and experimenting with other possible sources of fuel to supplement the regular #6 oil.

In the final analysis, the most important measure is to use what supplies we do have in the most economical way in order to make supplies last as long as possible.

On October 4, 1973, the Laboratory Energy Conservation Committee were asked to take steps to see that temperatures were reduced in working areas to no more than 68 degrees during working periods and 60 degrees during non-working hours. Wherever possible, the Committee has recommended that temperatures be reduced below these levels if at all practical.

Up until the start of the heating season, the Lab had been reducing consumption of fuel oil and electricity as part of the nationwide energy conservation program. At this point in time, the appeal is of a more personal nature in order to prevent an interruption in the operation of Brookhaven National Laboratory.

Barring a very severe and unseasonal cold spell, and operating at the reduced levels previously outlined, present supplies will last until December 15, 1973. According to Associate Director Vincent O'Leary, "We anticipate some deliveries before this date, but not in quantities sufficient to replenish our inventories prior to the onset of the very cold weather in January and February."

Any employee who has knowledge of areas that have been overlooked for fuel saving, should contact a member of the Energy Conservation Committee as listed elsewhere in the *Brookhaven Bulletin*.

No Bulletin Next Week

Due to the long Thanksgiving holiday, the *Brookhaven Bulletin* will not be published next week.

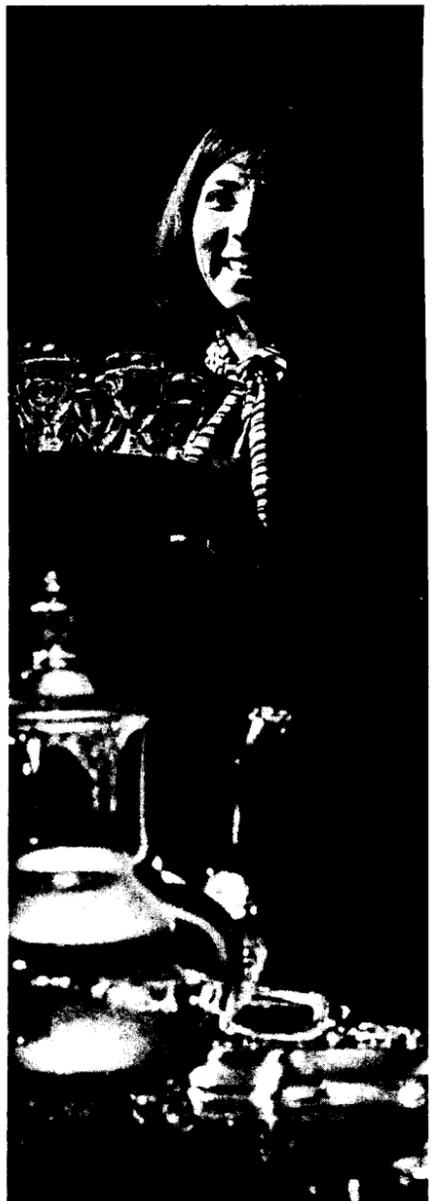
Lab Pool To Close For Energy Saving

For many months the Laboratory has been encouraging savings in the use of fuel oil, electricity, and gasoline, in accordance with the National Policy of Energy Conservation. The present fuel oil shortage has made further economies mandatory for the duration of the crisis.

Major economies in fuel oil and electricity can be made by the partial or complete shutdown of buildings not vital to Laboratory operations or where reassignment of work or personnel can permit such actions. Associate Director V.R. O'Leary has requested each department to report as soon as possible on the feasibility of such moves.

The decision has been made, effective November 21, to fully shut down the swimming pool facilities. The temperature level in the gymnasium will be maintained at a greatly reduced level. The gymnasium will be open, however, for scheduled organized activities. The Berkner Hall Auditorium and the North and South rooms of the Brookhaven Center will also be maintained at greatly reduced temperature levels and opened only for previously scheduled and approved functions. It is anticipated these actions will result in a savings of approximately 100,000 gallons of fuel oil and 50,000 kwh per year - and are merely the first of a series of such actions.

The BERA Board will meet in the near future to formulate a policy on season pool tickets. In the meantime, holders of such tickets should retain them for future credit or refund.



Christine Sancton takes her turn at serving sherry at the recent Hospitality Tea and Sherry Party, attended by approximately 50 on-site newcomers.

Save Fuel Now!

When leaving the Lab at the end of the day, turn your thermostat down to 60 degrees.

In the morning, put the thermostat up to 68 degrees maximum.

On weekends, set the thermostat at 60 degrees.

Wear a light sweater or a suit jacket if you feel chilly.

Keep your car speed below 50 mph.

Work harder . . . it will keep you warm!

Blewett To Be Energy Advisor

Laboratory Director George Vineyard has announced that John P. Blewett, Associate Chairman of the Accelerator Department will become Special Assistant to the Director for Energy as of Monday, November 19.

In this senior staff position Dr. Blewett will advise the Director on problems related to energy and will help stimulate innovative thinking at the Laboratory on energy research. He also expects to continue spending a part of his time, as available, with the Isabelle Study Group and other special projects in the Accelerator Department.

Dr. Blewett is no stranger to energy research, having been, while at Brookhaven, involved in the design and construction of the 3-BeV Cosmotron and the 33-BeV Alternating Gradient Synchrotron. Recently he has been active in research with the cooperative superconducting program and the Superconducting Power Transmission Project.

A native of Toronto, Canada, Dr. Blewett graduated from the University of Toronto and did graduate work at Princeton. After receiving his Ph.D. in 1936 he spent a year at the Cavendish Laboratory under the direction of Lord Rutherford.

In 1937 he joined the research laboratory of the General Electric Company in Schenectady where he remained until he joined the staff of Brookhaven in 1947.

Dr. Blewett has served as a consultant to the French Commissariat à l'Énergie Atomique and to the joint European accelerator laboratory (CERN) in Geneva. He is a member of the American Physical Society, The Institute of Electrical and Electronics Engineers, and the New York Academy of Science.

In announcing Dr. Blewett's appointment, Dr. Vineyard said, "I look forward to having Dr. Blewett's help in the important and growing area of energy research." Dr. Blewett will maintain offices in the Administration Building at 40 Brookhaven Avenue.

Conservation of Energy Committee

Departmental Coordinators

Accelerator W. Tuttle
Applied Math S. Rideout
Applied Science R. Isler
Biology J. Stangby
Chemistry B. Munhofen
Medical A. Finn
Physics F. Vandervoort

Division Managers

Central Shops R. Lehn
Fiscal B. McAlary
Health Physics, Safety, and Plant Protection C. Meinhold
Information J. Binnington
Instrumentation V. Radeka
Personnel J. Washburne
Photography & Graphics Arts R. Brown
Plant Engineering Harson, Mahlmann, Rose, Hunter
Purchasing B. Quinn
Reactors R. Powell
Staff Services W.S. Webster
Supply & Materiel P.L. Borzi

Conservation Note

In May of this year the *Brookhaven Bulletin* reported "The energy crisis is real." In the intervening months the crisis has become much more critical. We are all slated to find out how real on an individual basis when gas rationing starts. Fuel conservation, already desirable, will become essential.

Do not idle engines for prolonged periods. The fuel required to start an engine will permit idling for only a few seconds. Shut off engines. The only reason for leaving an engine running in an unoccupied vehicle is an inability to restart after shutdown, i.e., dead battery or no starter. Avoid jack rabbit starts and erratic speed control. A 50 mile per hour speed maximum limit is already in effect for Government vehicles and soon will be for private vehicles. Drive at a steady rate, 50 miles per hour or less in accordance with speed limits.

A recent test with identical new Laboratory vehicles shows gasoline mileage to have varied from less than 5 miles per gallon to more than 11 miles per gallon. The more conservative driver went 2.3 times as far as the careless driver.

Car Pools Answer To Gas Shortage

According to an informal survey made by the *Brookhaven Bulletin*, each car entering the BNL site carries an average of 2.2 riders. If present predictions of a gasoline shortage materialize, it will be necessary to increase this number considerably.

The most common reasons for employees resisting the use of carpools are:

1. The convenience factor - It's just more convenient to come and go on your own schedule than to stick to the rigid carpool times.

2. The conversation factor - Many carpool opponents think that fellow carpool members either talk too much or too little, or have the wrong things to say.

In spite of these admitted disadvantages there are many good points to carpooling. First, and most important, is the conservation of energy. In theory this might be hard to buy, but when gas supplies get low, the idea becomes very attractive indeed.

Secondly, carpools are cheaper, a very attractive point to remember when gas prices go up and up and up.

Other benefits less easy to measure include the reduction in pollution and the decreased chance of accidents on the road.

If you are interested in forming or joining a carpool, the classified ad columns of the *Brookhaven Bulletin* are available for advertising for suitable car-mates. Who knows, you might find a conversationalist from your neighborhood that will be just the thing to start your day off in the right frame of mind!

Give carpooling a try - if for no other reason, it's patriotic!

Superconducting Magnet

(continued)

perimental Area. The entire system was brought successfully into operation immediately after the first assembly and cooldown in the H-10 area.

This is a demonstration of the great skill and dedication applied to this job by the large team of people who contributed from all areas of the Accelerator Department.

This operational magnet system is an important "first" in the field of superconductivity for BNL. Superconductivity is believed to be important to the future of high energy physics, as well as being central to many promising future developments in the production and distribution of energy, transportation, etc.

Arrivals & Departures

Arrivals

Robert W. Callister Medical
Alfred J. Cordero Plant Engrg.
Malcolm R. Macphail Physics
Michael M. Zepmeisel Instrumentation
Graheme J. Williams Chemistry

Departures

Denise M. Alicea Medical
Richard D. Diem Accelerator

In Memoriam

James A. Baranosky of the Dept. of App. Science, who had been employed at the Laboratory since 11/29/48, died on 11/8/73.

Afternoon Tea



Members of the Hospitality Committee are ready for the afternoon party to begin: (left-right) Sigrid Walther, Ruby Fajer, Chairman Terri Pittenger, Ruth Dimmler, and Pat McKenzie-Wilson.

Letters To The Editor

Dear Sir:

A word about the United Fund appeal.

In the years of the great depression of the '30's, I knew a widow who was living with her two children on only the income from selling eggs and chickens which her teenage son was able to raise while attending school. Yet this lady never passed a Salvation Army pot without putting in a nickel or a dime, a comparatively large sum to one in her circumstances. She once told me of a firm belief in "bread cast upon the waters . . .".

I was very much impressed by this concept and ever since I have worked here, I have tried to raise my United Fund Pledge each year, especially if I got a raise. A dollar a week to U.F. is \$52.00/year and if raised in increments of only 25¢ a year quickly doubles one's contribution without much of a dent in the paycheck. A goal of \$25,000 from an institution which probably employs 2,400 people seems to me a very small amount. If each of us gave only \$1.00/week, we could give \$124,000.00 to the United Fund.

What a contrast between the possibility and the probable reality! Everything else has gone up, why not your contribution?

Sincerely,
A Receptionist

United Fund Bonus

A 22-foot fiberglass boat, valued at \$3700, has been donated to the United Fund and will be given away at a drawing on November 29, 1973. All employees who pledge their "fair share" to the UFLI campaign, either through payroll deduction or the equivalent of a "lump sum" gift, are eligible for participation in the drawing. A fair share is approximately 1% of your annual income.

The Brookhaven deadline for Payroll to receive pledges to be included in the drawing is November 27 a.m. Our campaign for contributions, however, runs through December. If you did not receive a pledge card, please contact Payroll and they will cheerfully supply one.

The boat was donated by Dominick De-Jay, president of New Breed Hauling and Rigging Corporation in Deer Park.

Cooking Exchange

Jane Love

A Traditional Southern Thanksgiving Dinner will be prepared by our own collection of "Southern Belles" on November 21 at 12:30 in the Recreation Building. For our visitors from foreign shores, Thanksgiving is not a "new" holiday. We are very anxious that as many friends from far away as possible join with us to share the bounty of our Thanksgiving. If you have a new member in your group, or know of someone, please call her and ask her to join us November 21.

On Site Diners Note

The Cafeteria will operate only the Snack Bar Service from 9:00 a.m. until 2:00 p.m. daily over the Thanksgiving Holiday weekend, Thursday November 22nd through Sunday November 25th.

The Center will be closed on Thursday, Friday and Saturday, reopening at 5 p.m. on Sunday November 25th.

Happy Turkey to all!

Winter Is Coming

All the Laboratory vehicles have been 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. Your cooperation will be appreciated.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

CARL R. THIEN, Editor
CLAIRE LAMBERTI, Editorial Assistant

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Jan Gangwer (left) and Maria Bussiere enjoy a glass of sherry and a cup of tea at the Hospitality get-together.

Two Points of View

A lively and diverse group of people attended the opening of the photographic art exhibit, presented by the BERA Art Committee on Monday evening, the 12th, in Berkner Hall.

Among the visitors were a psychiatrist, a sociologist, the director of Guild Hall in East Hampton, artists and photographers, the BNL staff and their families. The guests of honor were Edmund Engelman and Sandra Weiner, who created the photographs.

"A Visit to the Offices of Dr. Sigmund Freud" evoked many comments. The viewers were able to gain an insight into the work performed by Dr. Freud, the founder of modern psychoanalysis. Particularly fascinating were the photographs of the priceless and ancient art treasures which filled the office rooms and influenced both Dr. Freud and his patients.

Engelman was born in Vienna, Austria, and by 1938 when the Nazis had entered the city and he took these pictures, he already had earned a Masters degree in engineering from the University of Vienna and was beginning to achieve a reputation as a talented young photographer.

A close friend of Dr. Freud asked Engelman to make a record of the physical setting of the life of the great psychiatrist. He photographed without use of flash bulbs, in secrecy and under duress, in order to avoid attentions from the Gestapo who were holding the house under surveillance. Even Dr. Freud was unaware of the activity of the young man until one day he surprised the photographer. Instead of a show of displeasure at the invasion of his privacy, he gave approval of the plan and consented to being photographed. "Yes," exclaimed Mr. Engelman, "I revered him very much. An air of mystique prevailed about his life and work."

Mr. and Mrs. Engelman now live in New York and East Hampton. Mr. Engelman has been a consultant in the design of photographic equipment in the U.S.

"They Call Me Jack," the photographs by Sandra Weiner, are taken from her recently published book, written in the first person by a Puerto Rican boy. He describes his life in Puerto Rico and later in New York City as a happy and engrossing world. The photographs are sympathetic and powerful, a beautiful demonstration of modern commentary.

Mrs. Weiner says, "I became interested in photography because I married a photographer. I was enormously susceptible and to him it was the biggest thing in life." Her late husband, Dan Weiner, was one of the outstanding photo-journalists of our time. Mrs. Weiner has developed her own style with both pen and lens. She has published "It's Wings That Make Birds Fly," the story of a young boy; "Small Hands - Big Hands," the story of Chicano migrant workers; and "They Call Me Jack," the recent book now on view at Berkner Hall.

The show exhibited here was first presented at Guild Hall, East Hampton, and will continue on to New York City. The two artists commented with favor upon the handsome installation of their work, hung by members of the BERA Art Committee.

The exhibition rooms will be open from 11 a.m. to 5 p.m. weekdays, until Wednesday before Thanksgiving. There is no admission, and all members of Brookhaven, families and friends, are welcome.

- Bunny Elliot

Curtain Up on Cactus Flower

The Bellport Playcrafters production of *Cactus Flower* will be presented on November 15, 16, and 17 at the Bellport Senior High School. Curtain at 8:30 p.m. Tickets, which are available at the door, are \$2.00 for adults, \$1.50 for senior citizens and students.

Selected Reading

New Sci. 60, November 1, 1973
The energy equation:
Realities of the energy crisis. C. Starr. 322-4 +
Energy analysis in policy making. M. Slessor. 328-30
Battle for an EEC energy policy. J. Thomas. 330-3
N.Y. Times Mag., November 4, 1973
The intolerable Andrei Sakharov. 42-4 +

Bowling News

Grace Fales

Red League

The results after 9 weeks of bowling finds the Charlie Browns back in first place with a 68-31 record, followed by the Lucky Strikes 67-32, and the Old Timers 60-39. Congratulations to J. Ferrante for his 215/219/204/638 scratch, 704 gross series - 2 club awards for Joe. Other highs: E. Fales 203, B. Buzzeo 224/205, S. Frei 203/204, J. Roesler 218, W. Reams 211, P. Klotz 201, E. Reams 202, J. Follenius 202, and N. Carter 218.

Green League

Congratulations to Denny Klein for his 206/198/693 gross series and a Club Award. 200's for the night were: R. Meier 217, N. Combati 219, J. Ferrero 213, S. Kiss 210, N. Anderson 202/208, D. Marlow 204, K. Riker 202, E. Sperry 201, and J. Berech, 201. The Sandbaggers moved within 10 points of the first place Designers and with the remaining schedule matches, the Sandbaggers seem to have an edge.

Pink League

The Hopefuls blistered the alleys with a rousing minus 1 mark going into the 7th frame. K. Conkling gained membership in the 222 Club by bowling 203/501. Other highs were R. Piccione 185, R. Rosati 184/488, G. Fales 180, C. Beckner 176, M. Stoeckel 175, M. Brenner 168, K. Hunt 168, C. Kerr 167, and D. Pion 160.

Black and Blue League

Going into position night, the Maybe's and the MJR's are tied for first with 37 points, followed by the Pinsplitters with 35 points and the Vultures with 34. Congratulations to Bob McCluskey on his 255 game. Other highs were Lew Jacobson 204 and Marge Nekerman 193. **Reminder:** There will be no bowling on November 21, the night before Thanksgiving.

BERA Concert Series

The second concert in the current series will be given by harpsichordist Kenneth Cooper on Tuesday, December 5, at 8:30 p.m. in Berkner Hall.

Mr. Cooper has established a fine reputation with music lovers in America and abroad. In addition to his activities as a soloist, he has accompanied such distinguished artists as Joan Sutherland, Dietrich Fischer-Dieskau, and David Oistrakh. He has also appeared as soloist with the Clarion Concerts Orchestra in New York and made a State Department-sponsored tour of the Soviet Union and Rumania.

Mr. Cooper holds a Ph.D. degree in Musicology from Columbia University and has contributed to several scholarly journals. Although he has specialized in 18th century music, he performs ancient as well as modern works. The BNL recital will include music by composers ranging from Purcell and Bach to Scott Joplin.

Ticket prices are \$3.50 for adults, \$1.75 for full-time students (with I.D.) and senior citizens (over 65), and free for those under 18.

Report Available

The following report is now available to the Laboratory Staff and to affiliates of the AEC, AUI, and BNL. Others may purchase it from the National Technical Information Service, U.S. Department of Commerce, 3285 Port Royal Road, Springfield, Virginia 22151. Staff members should call Ext. 3484:

BNL 50397 \$4.00
Flax Pond: An Estuarine Marsh. June 1973
G.M. Woodwell and E.V. Pecan

Weather Information

Station	Area	AM	FM
WALK	Patchogue	1370	97.5
WBAB	Babylon	1440	102.3
WGLI	Babylon	1290	—
WGSM	Huntington	740	—
WHLI	Hempstead	1100	98.3
WHRF	Riverhead	1570	—
WLIX	Islip	540	—
WLNG	Sag Harbor	1600	—
WPAC	Patchogue	1580	—
WRIV	Riverhead	1390	—
WWRJ	Southampton	—	95.3
WBLI	Patchogue	—	106.1
WRCM	Riverhead	—	103.9

Period Piece To Go On November 29

"It does not begin at the beginning and go on to the end; it is all going on at the same time" - Gwen Raverat, preface to *Period Piece*.

This is a good start at describing the production *Period Piece*, which will be presented November 29 in Berkner Hall. Geoffrey Hind, assisted by Ron Peierls and Pat Campbell, has brought together some of the more incongruous and imaginative expressions of the Victorian life-style for this stage offering which is subtitled "An irreverent review of Victorian life." The production is based on the book of the same title whose preface is excerpted above.

The carefully tended upper class culture of the time could explode into hilarious excesses of invention, architecture, clothing, and convention. Simultaneously, urbanization and industrialization were creating a way of life for the poor in the slums. Telling examples of these extremes of Victorian life in literature, mores, social economics, science, invention, art, and song have been chosen with a connoisseur's mania for what is deliciously amusing and seriously authentic. Performances will be integrated with numerous slide projections of the period.

This was the era of Mencken, Horatio Alger, genteel evening lectures on "How to Store Dynamic Magnetism," Dickens and Twain, Queen Victoria, Aunt Etty who secretly destroyed immorally shaped mushrooms, inventors of bicycles that travelled through the air or had tires which printed slogans on the road, young maidens vividly and cunningly warned about the vices of ballroom dancing, children who begged for a pitiful subsistence, and Uncle William who would look at a Rembrandt oil and comment, "Fine fellow, old Rembrandt." They are all represented in *Period Piece*.

The cast will include Graham Campbell, Eric Forsyth, Claire Hull, Bob Marr, Charlie Meinhold, Ron Peierls, Ruth Schwarz, Rita Straub, Heather Williams, and George Vineyard. *Period Piece* will have only one presentation date, November 29. Donations will be accepted.

-Iris Mastrangelo

Stony Brook Events

An exhibit of Indian artifacts, a theatre production, and a jazz concert highlight this week's events at the State University of New York at Stony Brook. Unless otherwise noted, the events are open to the general public without charge. There are no events scheduled during the Thanksgiving recess, from the close of classes Wed., Nov. 21 until Sun., Nov. 25.

Music, Theatre and Art

The Gershwin Music Box will present a musical adaption of the book "The Little Prince" Nov. 16-19 at 8:15 p.m. in the Music Box of Gershwin Residential College. For ticket information, call Claire (246-7041) or May Jo (246-7408).

An art exhibit featuring works by nine women will be held daily, Mond.-Fri., until Dec. 7 in the Humanities Building Gallery from 10 a.m. to 5 p.m.

An Indian artifacts exhibit, "Mola: Reverse Applique from the San Blas Islands," will be held until Nov. 23 in the Department of Anthropology's Exhibit Room, Room 142 of the Social Sciences "A" Building. The hours are: Mondays, 10 a.m. - 10 p.m.; Tuesdays, 10 a.m. - 7 p.m.; Wednesdays, 10 a.m. - 5 p.m.; Thursdays, 11 a.m. - 4 p.m.; and Fridays, 10 a.m. - 4 p.m.

There will be an exhibition and sale of original graphic art from the Ferdinand Roten Galleries of Baltimore on Fri., Nov. 16, from noon to 9 p.m. in Room 248 of the Stony Brook Union.

The International Art of Jazz is sponsoring a concert by Chico Hamilton on Sun., Nov. 18, from 4-7 p.m. in the Stony Brook Union Ballroom. Tickets are available at the door, \$3.50 for non-members and \$2.50 for members. For additional information, call 261-5582.

Films

The COCA Fall Series will show "Cabaret" at 8 and 10 p.m. on Nov. 16 and 17 in Room 100 of the Lecture Center. Admission is \$1 and a limited number of tickets may be purchased at the Main Desk in the Stony Brook Union from 6-10:30 p.m. on the night of the movie.

The COCA Sunday Series will show "Triumph of the Will" on Nov. 18 at 8 p.m. in Room 100 of the Lecture Center. Admission is \$1 and tickets may be purchased at the door.

Tuesday Flicks will show "Samuri," directed by Hiroshi Inagaki of Japan, on Nov. 20 at 8 p.m. in the Stony Brook Union Auditorium.

Soccer

Ken Batchelor

The winter indoor soccer league will commence competitive play at 5:15 p.m. on Friday, November 30th in the Gymnasium.

At the time of writing, five teams with a total of over 30 players have signed up for play. Anyone who has not already signed up and who is interested in playing should contact one of the team captains or soccer club officers listed below, or come along to a practice game at 5:15 on Friday, November 16th.

Why not join us in keeping those inches off your waist by exercising every Friday through the winter. There will be an entry fee of \$3.00 per person to assist in defraying equipment costs.

Officers:

Ken Batchelor - Chairman & AGS Captain, Ext. 4592
Ralph Fairchild - Secretary and Medical Captain, Ext. 3649 or 3673
John McCafferty - Match Secretary, Ext. 4592
John Skalto - Treasurer and Physics Co-Captain, Ext. 3761
David Cox - Physics Captain, Ext. 3818 or 3844
John Barker - Chemistry Captain, Ext. 4372
Dave Juers - Biology Captain, Ext. 3396

Basketball League Needs Players

Two seconds left - we're down by one - you fake, jump, shoot - the buzzer - swish!

Relive that moment of glory - play BERA slowbreak basketball this year. There's a place for you regardless of size, shape, or physical condition. It's fun and it's healthy. Enter a team or join the player pool. Call Lew Snead, Ext. 2544.

Cafeteria Menu

Week Ending November 23, 1973

Monday, November 19

Scotch Broth
Cheese Ravioli & 1 Veg. .95
Franks, Baked Beans w/Cole Slaw .95
Corned Beef & Cabbage 1.20

Tuesday, November 20

Split Pea Soup
Scrambled Eggs, French Fries
& Sausage .95
Barbequed Spare Ribs & 1 Veg. 1.20
Hibachi Burger & French Fries 1.05

Wednesday, November 21

Lentil Soup
London Broil & 1 Veg. 1.20
Spaghetti w/Tomato Clam Sauce .95
Chicken Stew Casserole 1.00

Thursday, November 22

Snack Bar open 9 a.m. - 2 p.m.

Friday, November 23

Snack Bar open 9 a.m. - 2 p.m.

Classified Advertisements

Placement Notices

Each week, the BROOKHAVEN BULLETIN lists personnel placement requisitions currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves or others whom they wish to recommend to BNL. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole. For further information regarding a placement notice, please contact Employment Supervisor, extension 2879 or 2882.

COMPUTER SCIENCE ANALYST - Bachelor's degree or equivalent with strong background in scientific programming including participation in advanced development projects on operating and applications systems. Applied Mathematics.

TECHNICIAN - A.A.S. degree or equivalent with experience in vacuum systems. Accelerator Department.

MACHINE SHOP FOREMAN - Central Shops Division.

RESEARCH SERVICES ASSISTANT - Temporary part-time position. Chemistry Department.

METEOROLOGY ASSOCIATES - One position temporary part-time. Applied Science.

RESEARCH SERVICES ASSISTANT - Medical Dept.

SECRETARY - Health Physics & Safety Division.

TECHNICIANS (2) - Temporary part-time. Applied Science.

Classified Advertisements

Autos & Auto Supplies

70 IMPALA KINGSWOOD WAGON - Gold & white, V8, new tires, roof rack. \$1450. V. Vitkun, Ext. 3254.
 68 BUICK SKYLARK - 4 dr, pb, auto trans, very good cond. \$650. R. Walton, 286-8535.
 TIRE RIMS - 2-13" w/5 holes; used 6.85-15 tire in good cond. H. Susskind, Ext. 4465/4461.
 67 FORD F-250 - New tires, low mileage, w/camper, must see to appreciate, showrm cond. 732-3338.
 MICKEY THOMPSON CHROME SLOTS - 14"x6" (Chevy 5 lug), \$25/pr; 8.25x14 snows on Ford 5-lug rims, almost new, \$50/pr; 13" rims, Ford 4-lug, \$5/pr; 14" rims, Ford 5-lug, \$5/pr. 286-8119.
 68 CHEVY STATION WAGON - Air cond, clean. \$800. 281-6798.
 73 DATSUN 240-Z - Red, auto trans, am/fm radio, radial tires, 3500 mi, excel cond. \$4300. 475-7877.
 SNOWS & RIMS - Pr F78-14, studded nylon tubeless on VW rims, tires good for 1 season, rims for longer. R. Parsick, Ext. 2449.
 70 DODGE CAMPER SPECIAL - 3/4 ton pickup w/ camper, 383 V8, ps/pb, radio, trailer pkg & hook-up, low mileage. \$2350. G. Baer, 475-0037.
 71 PLYMOUTH CUSTOM FURY - 4 dr sedan, auto trans, V8, ps/pb, equipped to tow travel trailer - any size up to 25', very good cond. 924-6458.
 TIRES - 2 H7C-14 w/w load range B belted tires, Goodyear, mounted & balanced on Pont rims, like new. \$45/pr. George, Ext. 4212.
 68 SAAB - V4, new brakes & shocks, good running cond. \$400. George, 698-6051.
 SNOW TIRES - Worn but legal, on 8.25x14 rims for Chrysler products. \$10. M. Greene, Ext. 4484.
 SNOW TIRES - Norseman Armstrong tubeless w/w, 4 ply nylon, on 5-hole GM wheels, like new. \$40. 286-8945.
 67 CHRYSLER NEWPORT - Auto trans, ps/pb, runs well, good tires, body not so good. \$200. T. Cotter, JU8-4766.
 70 SUZUKI TRAIL BIKE - 250 cc, excel cond, low mileage. \$495. 924-5065 eves.
 65 RAMBLER CLASSIC - 4 dr sedan, 6 cyl, new brakes & alt, good running cond, left side dented. \$75. 732-7801.
 66 CHEVY BELAIR WAGON - Low mileage, Reese hitch, load levels & wired for camper, new tires, recently tuned, ps/pb. Asking \$375. Frank, 281-4179.
 64 FORD FAIRLANE - Runs, \$50; 63 Cadillac, very good cond, \$150. 924-4228.
 61 CHEVY 1/2 TON PICKUP - Good dependable transp. 878-0743.
 71 FORD MUSTANG - Ps, auto trans, vinyl roof, very clean, 26,000 mi. Asking \$2150. 751-8158.
 72 DODGE DEMON - Ps, V8, bckts, center console, auto trans, excel cond. Asking \$1800, make offer. 289-9196.
 66 CHEVY 1/2 TON PICKUP - 6 cyl, 3 spd std, r/h, rack, good cond. \$850. 475-3648 after 5.
 69 COUGAR XR7 - Full pwr, am/fm radio. \$850. C. Ruege, Ext. 4452.
 67 CHEVY - 2 dr. Asking \$500. 732-3369, 8-9:30 am.
 71 VW SQUARE BACK - Yellow, fuel injection, 27 mpg plus, steel radials, dealer serviced, 36,000 mi, excel cond. \$2000 firm. Art, Ext. 3550.
 69 DODGE DART SWINGER - Excel cond. \$1250. 286-8517 after 5:30.
 69 MGB - Red, body & motor excel cond, must see. 661-9658 days, 661-3392 nights.
 WHEELS FOR 72 DUSTER - \$5/pr. Ed, Ext. 3640.
 61 CHEVY - 6 cyl, auto trans, rusted but runs well, eng & trans OK. \$50. Joe, Ext. 3273.
 71 CHEVY STATION WAGON - Bookwood, new tires, good cond, extra rim for spare. \$2000 firm. Feindt, Ext. 4452.
 TIRES - 2 ea 6.00x15 tires mounted, for Volvo, low mileage. \$30 firm. Ann, Ext. 3143, 732-9384 after 6.
 67 PLYMOUTH BELVEDERE - 4 dr sedan, 318 V8, ps/pb, perf cond, 2 extra studded snows free. Selling \$700 - I'm going back to Europe. Philippe, Ext. 4581.
 SNOW TIRES - 2 F78-15, 4 ply WSW Goodyear on Ford rims, 1 season, \$65; 2-14" Mustang wheels, 5 lugs, \$10/pr. R. Dietz, Ext. 3059.
 72 MERCURY STATION WAGON - Colony Park, 6 psgr, 39,000 mi, air cond, immac. \$3000. 286-3615.
 1 TIRE - On Ford rim, w/w, H78-15, \$10; 1 Olds rim, 14", \$2. W. Chornoma, Ext. 3255.
 66 FORD STATION WAGON - Good running cond. \$250. P. Ribon, Ext. 3934/3908.

Boats & Marine Supplies

40 HP JOHNSON 1973 - Excel cond. \$450. Ext. 2486.
 30' PACEMAKER SEDAN FISHERMAN - Outriggers, fighting chair, B deck winch, docking rights, 2-210 & more. T. MacPherson, 653-5238.
 12' SCORPION FIBERGLASS SAILBOAT - Fast, safe, like new. \$450. 286-0798.

Miscellaneous:

TRIPLE DRESSER - Matching chest of drawers, light colored, heavily built. 2/\$75. 727-1617.
 2 TICKETS - Met "Don Giovanni" April 10 (Lab seats), exchange for 1 of other performances of same. 286-3742.

2.4" REFRACTOR TELESCOPE - 3 eyepcs to 132x, Zenith prism, erecting prism attachments, adjustable leg tripod, alt-azimuth mount/slow motion controls, oak carrying case. \$49. George, Ext. 4447.

16 SECTION DRESS FORM - Sears, adjusts to fit 32"-39" bust, 34"-41" hips, on floor pedestal stand, very good. \$7. George, 588-5228 after 5:30.

SLIDING DOOR UNIT - W/track, \$12; baby carriage, \$12; Jacobsen reel type mower, needs work, \$10. Frank, Ext. 3531, 473-4612 after 5.

TICKETS - Il Travatore, at the Met, Nov 24, Mat. 2 @ \$12.50 ea. Myron, Ext. 3418.

LEATHER BOOTS - Women's 7-7 1/2 narrow, dk brown, low heels, hand made in Costa Rica, like new. \$15. Ann, Ext. 3381, 286-3764.

FEDDERS AIR COND - Needs repairs, or can be used for parts. \$15 or best offer. Spark, Ext. 4111; Osterer, Ext. 4156.

6 FT METAL SKIS - "Head Standard" w/"Tyrolia Ski-meister" binding & poles. \$55 firm. Ext. 4333.

AUSTRIAN SKI BOOTS - "Harderer" all hand sewn leather, size 5, very good cond, w/boot rack. \$45 firm. Ext. 4333.

MOTORCYCLE MITTENS - Blk calfskin, thick fleece lining, gauntlet cuff. Orig \$25, worn once, now \$15. Nauman, Ext. 3412, 286-3764.

FREE PUPPIES - Pedigreed German Shepherd mother, good markings, 1 male, 1 female. 924-8680.

FOLDING CAR CARRIAGE - W/matt, in excel cond. H. Susskind, Ext. 4465/4461.

GE TRAVEL IRON - Steam, brand new. \$10 or best offer. 286-3742.

OLD (78) PHONOGRAPH RECORDS - Rocking chair, cheap. O. Booker, Ext. 4719.

RATTAN SET - Lg settee, 2 chairs, table, floor lamp, cigar stand, arched flower basket. V. Vitkun, Ext. 3254.

84" ROUND BED - W/linens, \$150; 23" b/w Zenith TV w/stand, \$85; Shetland rug shampooer, \$20; pr liv rm lamps w/shades, \$30. Bob, 473-3987.

TYPEWRITER - Portable Brother Echelon 99, full tabulator, new cond. \$40. 286-1169 after 6.

ROTOTILLER - \$50; snow blower, as is, \$35; Studio Girl Cosmetics, 50% off. 924-8439 after 6:30.

SADDLE - Ladies' Western, buck-stitched, padded seat, roping horn, compl w/girth & leathered stirrups. \$150. Tom, 732-9061.

ANTIQUE CORN PLANTER - 50 yrs old, Grandma used it, excel cond; micromet filter, orig \$16, sell \$4.50; mini washer, ideal for camper, washes 6 lbs. 732-3338.

13 1/2' TRAILER - Sleeps 4, porta potti in closet, heater, ice box, stove, sink, new tires. \$700. 475-3632.

HEATING UNIT - Thatcher w/all controls, \$100; wine press, \$10; old steamer trunks, 2, \$10 ea. 732-3338.

CURTAIN RODS - Brass finish, 4 dbl window, 1 single window. \$3.50 ea, \$15/all. J. Olson, 289-8629.

ELEC WALL FIREPLACE - 1650 watts w/thermostat, like new. \$70. Ken, Ext. 4003.

TWIN HAIR MATTRESSES & BOX SPRINGS - Old but clean & free. Ext. 3328.

BABY'S CRIB - W/matt. Irwin, Ext. 4592.

MEN'S HOCKEY SKATES - Size 10. Irwin, Ext. 4592.

PONY - 10.2 hands, gentle, good jumper. \$75. J. Sondericker, Ext. 4280, 924-6512.

2 HOUSE MOVING JACKS - Mech, simplex. \$30/pr. Ken, Ext. 4003.

SEARS RIDING MOWER - 5 hp, needs minor repairs. Ext. 3498, \$40. HR2-0553.

BABY CARRIAGE - Bilt-Rite, folding type, use as car bed. Good cond. \$15. Call Leo, Ext. 2952.

JET PUMP - Deep well, 3/4 hp, single stage, Sta-Rite, all access. \$45. 732-7911.

COVERLET - Custom made, full size, royal blue cut velvet, \$15; National Rifleman's magazines, over 200 issues 1954-72, Gun's magazine-over 50 issues, \$25/all. I. Merritt, LT9-5126.

COLONIAL LAMP - 3-way, amber & wood, \$35; candlesticks, marble, brass & milk glass, \$12. I. Merritt, LT9-5126.

CORNER CABINET - Early Am, \$25; antique oak library table, \$35; colonial lamp, \$10; glass lamp, white base, silver & gold floral design, \$10. I. Merritt, LT9-5126.

NEW LAWN/LEAF SWEEPER - My yard is too bumpy, very light, collapses for compact storage. Ext. 3655, 281-2002.

ACCORDION - 120 bass, excel cond, w/case & stand. \$50. Bob, Ext. 4411.

LADIES' HARRIS TWEED COAT - From Altman's Meadowbrook shop, shades of rust, brown, size 10. \$25. Ext. 3397.

WASHING MACHINE - GE filter flo, working cond, free for the carting. 924-3581.

TRUMPET - EK Blessing w/2 cases, like new. \$65. Lou, Ext. 4605.

50 HARDY BOYS BOOKS - Like new, worth \$75, asking \$45; great Christmas present. 286-2265 after 5.

LG PITCHBACK - Like new. \$6. 286-2265 after 5.

BATHRM MEDICINE CABINET - W/mirror. \$5. M. Greene, Ext. 4484.

MOBILE HOME IN FLORIDA - 1972, 72x12, 3 bedrms, 2 full baths, lived in 6 mos, unfurn. \$5500. Sal, 878-2486.

22" B/W TABLE TOP ZENITH TV - In working order except for tuner. \$10. M. Rustad, Ext. 2528.

AUDUBON ENCYCLOPEDIA - Like new. \$25. M. Rustad, Ext. 2528.

IRON RAILINGS - 4 pcs, 2 posts & fittings, new, compl. \$35. Ext. 2889, 325-1961.

DIN RM SET - Compl, contemporary chairs, hutch, table w/ext & custom pads, like new. \$150. 744-6184.

40 GAL GAS HOT WATER HEATER - \$25; space heater, \$10; lg propane cyl tank, \$25. Reilly, Ext. 3255, 744-8680.

AFGHAN HOUND PUPS - AKC reg, pet & show quality, elegant & affectionate, champion background, shots. Ext. 4317, 286-0128.

BEGINNER GOLF SET - Right-handed, excel cond, 4 irons, 2 woods, putter canvas bag w/leather trim. \$40. Jackie, 698-4870 after 6.

BABY CARRIAGE - \$5. 924-3303.

UPRIGHT VACUUM CLEANER - \$5; traverse rod, 66", very good cond, \$5; Royal typewriter, good, \$20; aquarium light for 10 gal aquarium, \$2. 473-3986 eves.

RCA B/W TV - Portable 18", needs repair, any reasonable offer; wood grain formica dinette table, good, \$8; 8 mm movie projector, \$8. 473-3986.

KIRBY VACUUM - Excel cond, 1 1/2 yrs old. \$100 or best offer. C. Hyde, 234-6583.

APACHE MESA III POP-UP TRAILER 1970 - Fiberglass top & sides, sleeps 6, stove, sink, ice box. \$800. 281-8241.

WOLLENSAK TAPE RECORDER - Mono, 20 watts, mike, jacks & tapes, excel playing cond. \$45. Jay, 878-2197.

WOOD STORMS - 31x55 (5), 24x55 (1), 31x37 1/2 (1), \$1 ea; screens 31x55 (2), 24x55 (1), 31x37 1/2 (1). J. Olson, 289-8629.

STEREO AMPLIFIER - Pacemaker, over 75 watts, hi and low filters. \$20. Ext. 4662, 929-4532.

PORTABLE KENMORE WASHER - 3-cycle, lint filter, will haul. \$50. Dan, Ext. 4379.

WT WATCHERS SPECIAL - My loss-your gain! Full length mouton coat, size 16. Asking \$100. Shirley, Ext. 3653.

MOVIE CAMERA - Wollensak Eye-Matic model 47 w/ case & Brownie 500 projector model 189. \$25/both. Ext. 2547, 281-5328.

ELEC MEAT SLICER - Model 900S-115V AC-DC, 7 amps, works but needs attention. \$5. Ext. 2547.

24" RCA XL 100 COLOR TV 1973 - Beautiful console, \$600; 2 end tables & 1 cocktail table, \$60 each, \$175 takes all. 286-8517 after 5:30.

GIRL'S FIGURE ICE SKATES - 2 pr size 9, like new, \$5/pr. Ext. 4514.

REEL LAWN MOWER - 21" Craftsman, h.d., excel cond, must see, bargain priced. 286-0246 after 5:30.

275 GAL OIL TANK - 8 yrs old, best offer. 473-8716.

GIRL'S STING RAY BICYCLE - 3 spd, hand brakes. \$20. Marion, 929-4540.

GE REFRIG - \$20. Ext. 4452.

LAWN MOWER - Jacobsen Park 30, 30" cut, reel type, 5 hp eng. Richie, Ext. 4254, 734-7342 after 6.

B/W MAGNAVOX TV - 9 mos old. Pd \$85, asking \$50. P. Gorodetsky, Ext. 4581.

ORLON YARN - Lg assortment of colors, \$2.50/lb, will deliver to Lab or pick up at my home. Ann, Ext. 3143, 732-9384 after 6.

TAP SHOES - Size 2. \$3. Ruth Ann, 744-5741.

GIBSON SOLID BODY GUITAR - W/amp. \$125. 281-6798.

25" RCA COLOR TV - 4 yrs old, excel cond. \$195. Claire, 732-6712.

ANTIQUÉ CONSOLE GRAMOPHONE - Antique baby scale w/wicker basket; both excel working cond. Claire, 732-6712.

PIANO - Recently tuned, priced to sell. 878-2864.

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

PATCHOGUE - 3 bedrms, 2 baths, liv rm w/fireplace, kitchen, game rm w/bar, 2-car garage, 15' pool. \$27,500. Ext. 4278.

NORTH PATCHOGUE - 60'x128' wooded lot w/ stream, near IRS. \$6500 firm. 289-4770.

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same week.

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

- For Sale: Auto & Auto Supplies
 For Sale: Boats & Marine Supplies
 For Sale: Miscellaneous

- Wanted
 Carpools
 Lost & Found
 Services

Check the heading applying to your ad.
 Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

Employee's Signature Life No. Ext.
 Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).

PORT JEFF - 14 rm farm ranch, 5 yrs old, air cond, 3 zone heat, 3-car garage, finished playrm. \$62,000. 473-3987.

ROCKY POINT - Ranch, lg fam rm w/fireplace, cellar, 1 1/2 garage, city water, landscaped, 7 yrs old, corner plot, cable vision, 6% mort. \$38,000. 744-3569.

ROCKY PT - Custom 4 bedrm cape, finished bsmt, garage, laundry rm & appliances, beautifully landscaped, enclosed patio w/brick fireplace, priv beach, low taxes, must see. 744-9648.

MILLER PLACE - 6 rm ranch, liv rm w/fireplace, din rm, lg kitchen, 2 baths, finished bsmt, patio, s/s, 100x280, nice area. \$36,000. 473-0871.

BUILDING LOT - Pt Jeff Village, 1.5 acre. 473-8716.

BELLPORT VILLAGE - 3 yr old hi-ranch, 4 bedrms, 2 baths, playrm, s/s, w/w, 2-zone heat, patio, util bldg, 2-car garage, golf course & dock privileges. \$32,500. 286-0147.

PROPERTY - 1/2 + acre, Rt 13, Delaware, incl 70' mobile home. Ext. 2889, 325-1961 after 5:30.

RIVERHEAD - 3 bedrms, 1 1/2 baths, lg kitchen w/fireplace, sun porch, w/w, alum siding, 2-car garage, fenced yard, low taxes. \$29,000. Ext. 4697, 727-4859 after 5.

Wanted

POOL COVER - Heavy duty, for 18' round pool. Doug, Ext. 2382.

CAMPBELL SOUP LABELS - Need 6000 for St John Nepomucene School to get free projector. Mail to F. Chandler, Bldg T-89.

HOME FOR PUPPY - Sm mixed breed, fluffy and cuddly, ready now. 732-3135.

CRASH HELMETS - 2 boy's sizes & 1 adult size, reasonable. John, Ext. 4143.

JUDO UNIFORMS - Used, cheap, in good cond, sizes 2 & 3, dbl barrel 12 or 20 gauge shotgun-cheap. John, Ext. 4143.

LADIES - Interested in forming ladies' basketball teams. Sharon, Ext. 3331; Louise, Ext. 3325.

AM/FM RADIO - Stereo or mono, used, inexpensive, in good cond. Ext. 3044.

RECORD CHANGER - Used, anti skate, cueing, must be in excel cond. Andy, Ext. 4174, 281-8274.

BATT CHARGER FOR 6 & 12 V - Cheap but workable. John, Ext. 4143.

GOOD HOME - For attractive male cat, affectionate, good company, 6 mos old. Jane, Ext. 4046, 744-6243 after 5.

B/W TV - Good working cond. Ext. 3784, Ext. 3193 eves.

HOME - For 4 Irish Setter pups, 6 wks old, 3 male, 1 female. L. Nowaski, 924-3544.

HOUSE OR APT TO RENT - 2 bedrms, 10-20 min from Lab, would like to move by Dec. 1, will pay up to \$200, no more. Pauline, Ext. 3155, 727-7833.

BASIN WRENCH - Pipe cutter, pipe wrenches, plumbing tools, reasonable prices. Walter, Ext. 3499.

2-7.85x14 SNOW TIRES - H. Susskind, Ext. 4465/4461.
 2 TIRE RIMS - 14" w/5 holes for 67 Rambler. H. Susskind, Ext. 4465/4461.

Carpools

DRIVER WANTED - To compl Huntington carpool. Irv, Ext. 4581; Frank, Ext. 3270.

RIDE WANTED - Selden/Pt Jeff Sta, Bldg 902 by 8:30, leave BNL 5 pm. J. Hildt, Ext. 4447.

Services

HOME TYPING - Reasonable. 289-6692.

FIREWOOD - \$45/cord, 2/\$80. 924-4228.

PIANO LESSONS - Private & group. 924-3303.

TREE REMOVAL - Topping, cabling, chain saw work, estimates, cord wood. 727-1329.

OAK CORD WOOD - Split & delivered (within 20 mi from Lab). 727-1329.

HATHA YOGA FOR WOMEN - Relaxation, breath & body control through Yoga postures, sm classes, day or eve. 472-1397.

ORGAN LESSONS - Experienced teacher, theory incl, your home or mine. 924-3236.