

## Hendrie Nominated NRC Chairman

Joseph M. Hendrie, Chairman of the Department of Applied Science, was nominated by President Carter last week to be Chairman of the Nuclear Regulatory Commission. On June 30 the White House had sent his name to the Senate as a member of the Commission. It is expected that Hendrie will leave for Washington soon after Senate confirmation of his appointment is received.

He is no stranger to the city on the Potomac. Besides the regular coming and going



Joseph M. Hendrie

that is the lot of every department chairman, Hendrie spent two years in Washington from 1972 - 1974 as Deputy Director for Technical Review of the AEC's Directorate of Licensing. The Technical Review organization was responsible for the safety aspects of nuclear power plant design and operation and for environmental radiological and cost-benefit analyses.

An authority in this field, Hendrie was awarded an Ernest O. Lawrence Award in 1970 "for his outstanding contributions to the physics and engineering of versatile research reactors and for important contributions and recognized leadership in promoting the safety of large power reactors."

His entire professional career has been spent at Brookhaven. Shortly after completing his research for a Ph.D. in Physics at Columbia University, Hendrie joined the staff of the Nuclear Engineering Department of Brookhaven (now Applied Science) in 1955 as an Assistant Reactor Physicist. Three years later he was selected as Project Engineer and Chairman of the Steering Committee for the High Flux Beam Reactor, a position he held until the completion of the project in 1965.

He subsequently served as Acting Head of the Experimental Reactor Physics Division and Project Manager of the Pulsed Fast Reactor Project. In 1967 he was appointed Associate Head of the Engineering Division and in 1971 Head of the Division. He became Chairman of DAS on July 1, 1975.

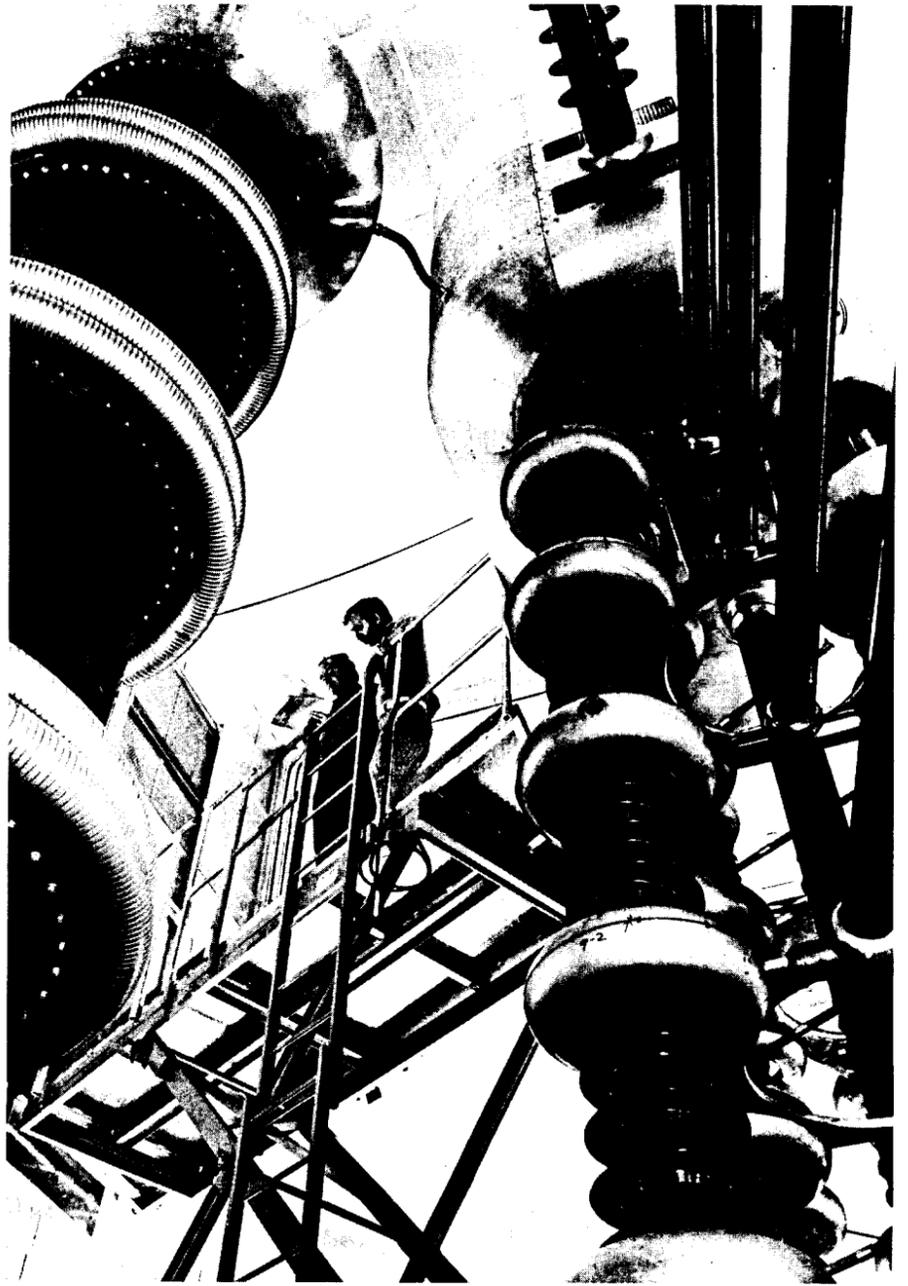
During the course of his career at the Laboratory, Hendrie's accomplishments have been many. Besides his important contributions to the successful completion of the HFBR, Hendrie developed a program of fast reactor experimental measurements, and designed a fast neutron critical experiment facility.

Among numerous professional activities, Hendrie is the U.S. Representative on the International Atomic Energy Agency's Senior Advisory Group on Reactor Safety Codes and Guides, is a member of the Board of Directors of the American Nuclear Society, and serves on the Risk-Impact Panel, Committee on Nuclear and Alternative Energy Systems of the National Research Council.

Dr. Hendrie resides in Bellport, New York, with his wife Elaine. Their two daughters are both away at college; Susan at Stanford University, and Barbara at Bowdoin College.

## Please Volunteer

Men 50 years of age or older, non smokers and heavy smokers. For participation in a clinical research study involving the measurement of levels of cadmium in kidney and liver in normal subjects. For further information, please call Medical Research Center, 345-3672.



John Keane (left) and Edward Meier, on platform which allows them to reach the dome of the 750 Kev particle accelerator. When the set is in operation, the platform is removed. Project engineer Al Bertsche and Technical Supervisor Hank Kapfer were responsible for the assembly of the set.

—photo by Rosen

## Accelerating Towards Fusion

Energy researchers are adding another tool to the hardware kit of fusion technology. A Cockcroft-Walton, once a spare injector for the Linac, is now geared to a new direction . . . applied physics.

BNL's heavy ion fusion project under Alfred Maschke, Accelerator Department, is scheduling a long series of developmental work in this field. The 750 Kev electrostatic accelerator, which is called a Cockcroft-Walton after its inventors, is the first step.

"The only form of fusion that has ever been demonstrated is inertial confinement in thermonuclear bombs," said Maschke. "The technology of how things explode is understood. The problem with bombs is they're too big, so we have to make very small, containable explosions."

The particle beam of an accelerator is one of the possible modes for detonating the "mini-H-bombs." Maschke, a pioneer in this national research effort, was the first to suggest that accelerators could be the key to unlock this power.

Maschke explained that, "Accelerators are the product of a highly developed, mature technology. They have a demonstrated reliability."

In the more commonly talked about Magnetic Confinement Fusion, powerful magnets are used to hold together a hot plasma. If researchers can bring their plasma to a high enough temperature, they hope to achieve a sustained fusion reaction—a controlled mini-version of the sun to produce heat.

Inertial Confinement Fusion (ICF) is an attempt to pull together already demonstrated technological capabilities. For example, ICF plans to explode pellets made of radioactive hydrogen isotopes, deuterium

and tritium.

The micro-explosions would work like mini-thermonuclear detonations. Continuously produced, they could serve as another fusion source of heat. Then like any other power station, the heat can be used to produce steam that turns turbines, in the generation of electricity.

### Gearing Up

Researchers in ICF want to develop a beam of heavy ions using a Xenon pre-injector source. The Cockcroft-Walton, which was first turned on in the fusion project last week, will be the first accelerating step in the ignition beam.

To demonstrate feasibility of the ignition system, they will use a "low-beta" (low velocity compared to the speed of light) radio-frequency accelerator in the final step, adding another 400-450 Kev of energy. Later, the Cockcroft-Walton will fall into the category of injector as the power on the main radio-frequency accelerator approaches 2 Mev.

Most of the existing technology in the accelerator field is designed to provide a continuous beam of particles. In addition, the machine must be generalized enough to vary the types of particles it will handle in basic research.

ICF will instead require an instantaneous beam current that is much higher in order to ignite the fuel. The task will be to compress the beam into sections, but it may prove easier with other constraints removed.

"Since we really want to accelerate only one type of particle, Uranium-238, we can increase the intensity over what more versatile research accelerators have achieved up to now," said engineer John Keane,

(Continued on page 2)

## Exhibit Center - Where Past and Present Mingle

Only a few months ago, the Brookhaven Graphite Research Reactor was empty, dusty and dreary, like any abandoned building. Today, it has undergone a face lift and a name change and has emerged as the Exhibit Center.

The story of Brookhaven's research unfolds as visitors tour this historic building, the world's first reactor built to study peaceful uses of the atom. The reactor is

the core of the Exhibit Center. Now mannequins, in place of reactor technicians, reenact the loading of fuel. Voices from the past, tapes of people who worked in the reactor, explain the careful procedures taken with spent atomic fuel when the reactor was in full swing during the 1950's. Tools found in Brookhaven's "attic" are on display, and music from the 1950's

(Continued on page 2)



The tour guides for the 1977 BNL Tour Program outside the Exhibit Center. Since early May they have been guiding groups around the Laboratory site and through the Exhibit Center, and are well prepared to answer general questions about Brookhaven's facilities and research. Seated (left to right) are: Janet Tempel, Cheryl Regalmuto and Eileen Drower. Standing (left to right) are: Michele Kendig, Gail Bird, Anne Meinhold, Faye Caperna, Alice Kluber, Emilie Chisolm, Jeannie Mendez and Penny Smith. Other tour guides not in the picture are: Bonnie Cleveland, Gwen Williams, and Barbara Michelsen.

## Power Alert

At noon on Monday, during the heat wave, Brookhaven got a call from LILCO saying that they were low on power and asking for cutbacks. The Accelerator Department made the major decision of taking the AGS off the line, and the Laboratory administration requested the cooperation of all departments in saving power wherever possible. These efforts resulted in a total power reduction here of 36%, from a peak of 36,480 kilowatts to a low of 23,520. At 3:30 p.m. LILCO called again to say that they were back to normal. Brookhaven is the second largest user of electrical power on Long Island, and the railroads are the largest.

## Trips To New York City

The Hospitality Committee is planning two group railroad trips to the city. The first one will be Wednesday, August 10, and the second will be Wednesday, August 24. Each of the train trips will be limited to 120 people. Departure will be at 8:32 from the Patchogue LIRR Station. The round trip fare 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, August 5, for the first trip, and Friday, August 19, for the second trip. Make checks payable to "Brookhaven National Laboratory," and indicate on your check which trip you are taking. If you are planning on taking both trips, please send a check for each one. 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.

## IBEW Meeting

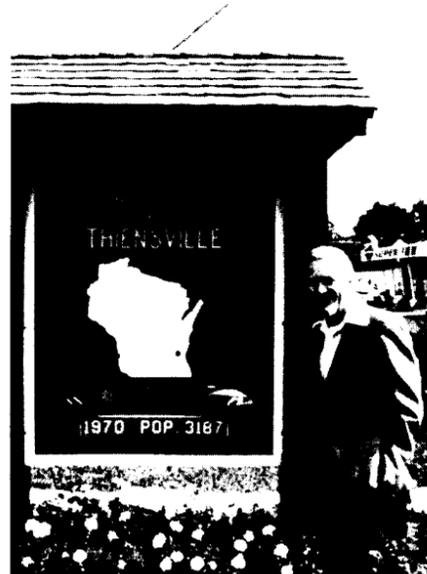
Local 2230, I.B.E.W. will hold its regular monthly meeting on July 28, 1977, at 8 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports, the President's report, and the report of negotiation committee.

## Cafeteria Menu

### Week Ending July 29, 1977

<b>Monday, July 25</b>	
Corn chowder	
Beef chop suey on rice	1.15
Scrambled eggs, sausages, fr.fr.	1.10
Hot deli - pastrami	
<b>Tuesday, July 26</b>	
Beef noodle soup	
Knockwurst & sauerkraut	1.10
Sauerbraten & potato pancake	1.35
Hot deli - veal pattie & peppers	
<b>Wednesday, July 27</b>	
Cream of potato soup	
Braised meatballs a la mode on buttered noodles	1.15
Hot deli - corned beef	
<b>Davy Jones Fish Fry Special</b>	
Cup of soup, fish fry, pie or ice cream	
Small beverage	\$1.87 plus tax
<b>Thursday, July 28</b>	
Chicken vegetable soup	
Cheese ravioli & veg.	1.05
Roast chicken, stuffing & 1 veg.	1.15
Hot deli - Italian sausage & peppers	
<b>Friday, July 29</b>	
Fish chowder	
Spaghetti & clam sauce	1.05
Breaded pork chop & 1 veg.	1.35
Hot deli - smoked tongue	

## Far Away Places with a Familiar Ring



Two BNL staffers, with uncommon surnames, have come across towns of the same name in travels around the country. Last summer during a trip out west, John Blewett went looking for Blewett Pass and a mining town called Blewett, which was on the map. He was not able to go far enough into the hills to find the town, but in Cashmere, Washington, there was an abandoned bus depot which apparently had been the stop for passengers to Blewett. Carl Thien was in Wisconsin recently and visited Thiensville, a prosperous town near Milwaukee. It was established in 1842 by a John Thien, and although there are no Thiens still in town, Carl was able to find a namesake in Milwaukee.

## Reminder

Roy Wood, Vice President in charge of Special Programming of the National Black Network, will speak on "Politics, Power and Race," at Berkner Hall, Thursday, July 28 at 3:30 p.m.

## Fusion (Cont'd)

"We want the highest amount of current possible."

The Cockcroft-Walton is just entering its new era as a fusion technology tool. With it, the Brookhaven scientists will study general beam characteristics and "space-charge limits."

These limits are simply a question of how many electrically charged particles can be concentrated into a confined space. Or in other words, what is the maximum beam intensity possible?

The question is not surprisingly a new one in the basic research world of accelerator engineers. Because of a need for versatility, this factor has never been pushed to the limit before.

This fall, the task will be to connect the Cockcroft-Walton to the custom BNL Linac now being constructed. The Linac's radio-frequency power source will be a transmitter, estimated to cost \$150,000, specially loaned from Berkeley for the experiment.

Demonstrating a working ignition device is the BNL facility's goal. Later, they hope to move on to a broader test system being coordinated by ERDA with other laboratories. —Cliff Cockerham

## Exhibit Center (Continued)

echoes throughout the area in a re-creation of "The Early Years."

The Center has been carefully planned to give visitors a sense of the growth and direction of the Laboratory's research. They move next to a display about the Cosmotron which is called "Accelerating Into the Next Decade," and from there, "Advancing Through the 1960's" describes HIRDL, and by pushing a button, they hear a tape which explains the High Flux Beam Reactor.

Up the narrow staircase to the second floor, formerly one of the experimental faces of the reactor, visitors see panel exhibits and models of the Laboratory's research to improve man's lot. The Medical

Department's research in cancer, hypertension, high blood pressure and bone disease is illustrated.

The Biology Department has an exhibit illustrating the effect of pollutants on the environment, and six-foot tall corn used in the study of natural growth regulators. A working model of the meadow/marsh/pond project shows that by using plant life to break down raw sewage into nutrients and fertilizing agents, water can be returned to the water table in a clean state, bypassing the need for treatment plants. Other exhibits show how Brookhaven scientists are examining the sun, wind, coal and steam as sources of energy.

At the top of the Center, a scientist explains a large model of the AGS and other

high energy physics exhibits. A special viewer lets the visitor scan film taken in bubble chambers in the search for subatomic particles. A spark chamber makes visible the cosmic rays which bombard the earth.

There is a lot to see and hear at the Exhibit Center and the visitor can also play games.

A computerized, electronic game, the Energy Environment Simulator, lets players balance energy resources such as coal, nuclear and hydroelectric against energy demands such as industry, heating and automobiles, to beat the clock. The game is over when the resources are exhausted and can no longer meet the demand.

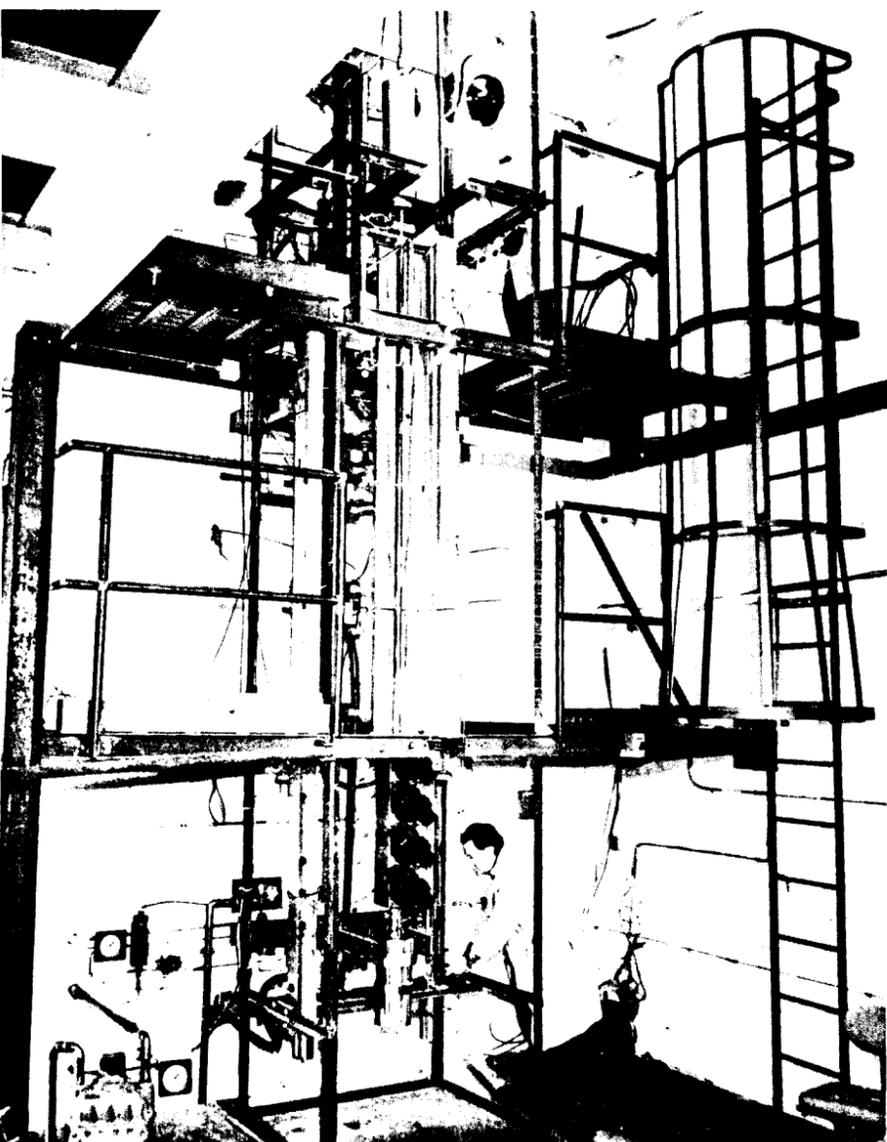
Play-tic-tac-toe with the computer. You might even win sometimes, but don't try to cheat because the computer will tell you "This is an honest game! Type again!"

That so much has been accomplished in such a short time at the Exhibit Center is principally due to the imagination and continuous effort of Janet Hoefling, the Center's designer, her assistant Mona Rowe, and Carl Thien, Public Relations Officer. They have worked endless hours trying to put together a showcase of Brookhaven's work. The Center is constantly evolving, with improved exhibits and new displays being added. There is still much to be done, but the old reactor is useful once more, with new form and content.

## On Tour This Weekend

The Exhibit Center is the core of Brookhaven's public tour program. Come and see it for yourself. So far, nearly 5,000 people have already done so. The tours begin at 10 a.m. with the last tour leaving around 2:30 p.m., on Saturdays and Sundays through August, and Saturdays in September and October. There is also a guided bus tour of the site and this weekend, July 23 and 24, some of the research being done in the Process Technology Division of DAS will be shown to the public.

This is the Division that developed the world-famous concrete polymer technology. Visitors will be taken through the area where the material is made and will see some examples of how it is applied, in highway repair, sewer pipes and in geothermal wells. Converting coal to synthetic natural gas, benzene and gasoline is another area of research on view. Touring groups will see a small pilot plant and scientists will explain how the fuel is produced in that plant.



The coal conversion pilot plant which will be shown to visitors this weekend. At top, George Woodson loads unit with coal, and at bottom of 12' tube, Jim Smith withdraws liquid samples and unreacted char. —photo by Rosen

## Arrivals & Departures

### Arrivals

Robert G. Cook	Accelerator
Sidney Fiarman	Applied Science
Leslie G. Fishbone	Applied Science
Richard W. Griffith	Applied Science
Robert T. Johnson	Central Shops
Ronald D. Judkoff	Applied Science
Jay H. Schwam	Applied Science

### Departures

Edward J. Bukowski	Personnel
Linda L. Miller	Medical
Rehana Mukhtar	Chemistry
Victor Quan	Applied Science

## Tennis

The first weekend matches in the BNL Tennis Tournament have been mostly completed despite the hot weather. Brave competitors vied for quarter-final slots in men's singles, men's doubles, women's singles, women's doubles and mixed doubles. Quarter-final matches are scheduled for tomorrow, 23 July; semifinals are scheduled for Sunday, 24 July. In case of rain, Saturday's matches will be played on Sunday, shifting Sunday's matches to play during that week.

Finals in all events are tentatively scheduled for the week of July 24 at 5:00 o'clock. (Line judges please volunteer).

Men's Singles and Women's Doubles on Monday,

Women's Singles and Men's Doubles on Tuesday,

Mixed doubles on Wednesday.

The on-court sign-up blackboard has been set up on the west side of the courts. It is to be used at all times in accordance with the rules posted at the courts for all courts except those reserved by advance sign-up. People signing early on a particular day should erase the previous day's sign-up.

# BROOKHAVEN BULLETIN

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## CREF Values

1976

January	\$40.31	February	\$39.76
March	40.75	April	40.10
May	39.69	June	41.60
July	41.21	August	40.94
September	41.59	October	40.62
November	40.40	December	42.66

1977

January	\$40.27	February	\$39.30
March	\$38.73	April	38.73
May	37.96		
<b>June \$39.91</b>			

## Mountain Club

About 30 people showed up at the Gunks last weekend for rock climbing. Many were trying it for the first time. Special thanks to Greg Donaldson, Malcolm Howells and Frank Sacherer for instructing the beginners and setting up the ropes and belays necessary to get people climbing up and rappelling down the cliffs. The weather was hot and the eating and swimming breaks at a nearby stream were a great relief.

This Sunday (July 24) there's a hike in New York City from the Battery to Central Park. Meet at 10 a.m. at the Statue of Liberty ticket booth and bring lunch. Everyone is welcome. Don David, Ext. 3942, 286-2267.

## Soccer

BNL lost the first game of league play 2-1 against Miller Place. This was followed by a 1-1 tie against the Sons of Italy that went to double overtime.

BNL will meet Holbrook at the Tremont School grounds on July 26. An earlier postponement of the game with Medford Brauhaus is set for July 28 at West Middle Island School.

Intra-squad play on Monday evenings will begin again after the finish of summer league play.

## Summer Pool Schedule

### Monday through Thursday

- 11:30 a.m. to 1:30 p.m. employees only
- 1:30 p.m. to 3:00 p.m. children's lessons
- 3:15 p.m. to 9:30 p.m. employees/families/guests

### Friday

- 11:30 a.m. to 1:30 p.m. employees only
- 1:30 p.m. to 3:00 p.m. children's lessons
- 3:00 p.m. to 4:00 p.m. children's special events
- 4: p.m. to 9:30 p.m. employees/families/guests

### Saturday & Sunday

- 1:00 p.m. to 6:00 p.m. employees/families/guests

### Admissions:

- Daily - employee/family member \$1.00
- guest \$1.50

Summer season tickets for individuals or families are valid through Wednesday, August 31.

**Guest Ruling:** Only one guest per adult BERA member may be admitted to the pool at any one time. Adult BERA members may have more than one but not more than five guests at any one time by making advance arrangements with the Recreation Representative in the Personnel Office. Members will be responsible for the conduct of their guests or their children, or both.



Cafeteria manager Roy Johannesen, cake baker Donna Dykeman and the new assistant manager, Bob Coveney. —photo by Rosen

## What's New At The Cafeteria?

The Cafeteria plays an important role in the day-to-day functioning of the Lab's employees, and in their continuing efforts to keep everybody happy, the Cafeteria management has strengthened its staff, added a cake baking service and welcomes your suggestions.

In the hope of receiving some constructive criticism from its patrons, a suggestion box has been installed at the entrance to the Cafeteria "Providing good service to our customers is not only our business, but also the customers' business. We feel that with some positive feedback from you we will be able to improve on our service," said Cafeteria Manager Roy Johannesen.

A recent addition to the Cafeteria's staff is the new assistant manager, Bob Coveney, who will be assisting Johannesen in the overall operation of the Cafeteria, and with the catering of special events.

Coveney received a B.A. in liberal arts from the College of the Holy Cross in

Worcester, Mass.; then he went into the service. When he returned he went back to school and received an associate's degree in food from the University of New Hampshire. He began training at Saga Food Company in May, and when a job opened up at the Lab, he and his wife and daughter jumped at the opportunity and moved here about six weeks ago.

Now you can have your cake and eat it too. Donna Dykeman, a recent graduate of the Culinary Institute, will be baking cakes to order starting on Monday, July 25. Employees can order cakes for birthdays or any other special occasion. Advance notice of 48 hours is the only requirement. A ten inch double layer cake with decorations will cost \$6.95. For specialty cakes - sheet, tier, special ingredients, etc., please call the Cafeteria (Ext. 3541) to discuss details and prices. Donna's specialty is making desserts and cakes. She is now taking a cake decorating course and is willing to experiment with new ideas and designs.

## Bicycling

The 65-mile Riverhead run took place in perfect weather on July 10 and was attended by six BNL cyclists. Led by Kate West, the BNL'ers included Frank Fridrich, Nick Gmur, Robert Krasny, Kevin Scoles and Pete Tuhy. Cyclists from other clubs were also present, but the BNL'ers kept together and rode independently.

A one-day trip to Block Island proposed for mid-summer has been abandoned because the Montauk Ferry has been stopped.

No other BNL cycling activities are scheduled before September 11, the date of the Fall race.

## Big Dive For Money

At last Friday's special pool event over 150 young swimmers searched the bottom of the pool for pennies, nickels, dimes and quarters. With cheering and jeering from the sidelines, the following youngsters surfaced the water with most loot:

### Four to Six Year Olds

- 1st Judy Kenny
- 2nd Valerie Long
- 3rd Donald Litcher

### Seven to Nine Year Olds

- 1st Jan Kycia
- 2nd Michelle Greenhouse
- 3rd Kathleen Cassidy

### Ten and Over Year Olds

- 1st Damian Emery
- 2nd Brian Wuttke
- 3rd Pat Cassidy

This Friday's kickboard races and next week's diving contest and plate races are guaranteed to be fun, exciting and noisy. Children of all on-site employees are invited.

## Parade Of Crazy Hats

A crazy hat contest kicked off the Friday morning specials of the Children's Summer Recreation Program last week. The kids spent a busy week using their creative talents in designing chapeaux of every color, shape and size.

Prize winners of different categories were as follows:

**Most Creative** - Yumiko Ikuno, Joram Bineubourn and Carolyn Robin. **Largest** - Diasuke Okuno, Patrick Kenny and Ryuichiro Hara. **Most Original** - Yoshiko Watanabe, Fritz Morgan and Yojiro Hara. **Most Unusual** - Janet Chin, David Goldberg and Ariela Bineubourn. **Craziest** - Billy Gill, Frank Walenta and Elia Lande. **Smallest** - Chris Davis, Kevin Verdi and David Lande. **Tallest** - Di Pika Pande, Paula Fontenla and Leah Lande. **Prettiest** - Judy Kenny, Sishu Hara and Susan Yang.

### Coming Events

- Today - Treasure Hunt
- Next Friday - Scavenger Hunt.

## Golf

The 2nd BGA tournament was hosted by FLAGG C.C. of Wading River. Forty-three players showed vying for 16 awards. The day was beautiful; golf was reasonable. Young converted a fine 34 (2 under) on his back nine into a 74, the only round below 80 for the day. Caunter picked up best net with a 67 and Hanney jumped on both closest-to-pin and long drive prizes.

As a results of this tournament and recent play, Young and Korhut have been chosen to represent BNL in the L.I. Industrial tournament later this month. Playing in the social foursome will be Blake, Fontana, Hanney and Johnson.

## Summer Volleyball

Recent results have all but cinched the regular season title for the New Team. Current standings are as follows, however, the Pushovers will probably forfeit 3 games to both the Thunderbirds and the New Team due to an injury to Dennis Weygand. A 4-team, double elimination tournament on August 1 is planned for the final championship.

	Won	Lost	Pct.
New Team	21	9	.700
Thunderbirds	20	11	.667
Scurves	18	15	.545
Setups	16	17	.484
Pushovers	6	24	.200

The remaining week pits the Scurves against the Setups.

Of interest to fans, this Saturday the professional volleyball league plays its all star game on television. Check your TV listing for time and station.

## Softball

### Sunny's Girls 16 - BNL Women's All Stars 17

On Thursday, July 7, the softball committee scheduled a softball game here at the recreation field between the BNL Women's Town League.

If you did not come to the game you missed an exciting contest that featured some great fielding plays and excellent hitting by both teams.

Our BNL girls, trailing 3 to 1, had a big eleven run third inning to take command of the game. Gail Waite (2 triples and a single), Kay Hunt and Mickey Haller (both with triples) did the heavy hitting for the BNL team. Debbie Walton played brilliantly in left field, throwing a runner out at the plate and making some fine catches. Pat Oster did a superb job pitching and fielding for the winners when the game became close. Coaches, Mike Zguris and Ed Taylor did a fine job organizing and coaching the BNL team.

A job well done girls!

### BNL Women's All Star Team

Jeannie Weber 3B	Gail Thompson C
Mickey Haller 1B	Pat Oster P
Debbie Walton LF	Sheryl Beckman SS
Sydell Lamb CF	Nicki McNally OF
Kay Hunt SS	Kim Colicchio OF
Rosemary Mack 2B	Linda Zahra 2B
Gail Waite RF	Linda Asselta 3B
Lynn Tice SF	Barbara Zguris C

### Employee's League

#### Circuits 10 - Bubble Boys 9

With a terrific throw from left field, Jeff Gaffney threw out the tying run in the bottom of the ninth inning to nail down a victory for the Circuits. In a very well played game for both sides, the Circuits had timely hitting from Frank Stepnoski, 3 for 3, John Schmidt, 3 for 4 and a good clutch hit by Mike Zepmeisel to drive in the winning run.

#### Six Pax 22 - Dirty Sox 5

In a runaway, the Six Pax had good hitting from Ed Meier, Sr., 5 for 5 and Ed Meier, Jr. Between father and son they batted in 12 runs. Denny Klein made a double play at home plate. How did that happen, Denny?

### Mixed League

#### I Don't Know 20 - Trouble 14

Tom Polistina hit two Home Runs, Larry Musso and Rick Zahra each had one. Nick Masciopinto pitched an excellent defensive game and the return of Mary Jane Gilletteboosted the moral of the team. All in all it was a solid team effort.

#### Diamonds 17 - Turkeys 4

Artie White went 5 for 5. Home Runs were hit by Check Carlson and Kenny Asselta. The strong support hitting by the Diamonds on to victory.

#### Hard Ballers 16 - OK's 5

Chris Jacinski had a Home Run and it was a constant barrage of strong hitting by the Hard Ballers, backed up by tight pitching and steady fielding.

#### TNT's 20 - Balls & Strikes 6

Another victory for the TNT's, 20-6 against the Balls & Strikes with two homers by Gary Goldstein and Arty Coone. Rookie Noreen Sarsfield had two good hits and Gary Goldstein pitched for the first time and pitched a beautiful game. Our left fielder, Debbie Walton, made a beautiful catch (nothing new to the TNT's) but left the Balls & Strikes spellbound.

### Notice

At the intra-league game July 7, a glove was found on field #1. Please contact Mike Zepmeisel, Ext. 3198.

## 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.

256. OFFICE SERVICES ASSISTANT - Good communications skills. Physics Department.

257. GROUP LEADER PAINTER A - Plant Engineering Division.

258. HELPER A - Central Shops Division.

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

259. ENERGY SYSTEMS ANALYST - MS or equivalent with substantial professional background in engineering, economics or a physical science to act as the United States participant in an analysis project to be conducted at the Laboratory under the auspices of the International Energy Agency. Department of Applied Science.

260. MECHANICAL ENGINEER - BSME or equivalent with design and analytical competence and a knowledge of high tolerance fabrication of one of the following: magnets, vacuum systems, cryogenics, optical instruments or precision experimental apparatus. Physics Department.

261. OCEANOGRAPHY ASSOCIATE - BS or equivalent with competence in Assembly and Fortran languages, systems programming and verification of scientific algorithms. Substantial experience in shipboard computer operation on oceanographic vessels is required. Department of Applied Science.

262. TECHNICIAN - AAS or equivalent in electronic technology with broad knowledge of complex instrumentation, initiative and the ability to communicate and work independently. Safety & Environmental Protection Division.

263. RESEARCH SERVICES ASSISTANT - Biological laboratory background with good microscopic skills to work with plants and fruit flies. Temporary position. Safety and Environmental Protection Division.

264. PATROL OFFICER TRAINEE - Safety & Environmental Protection Division.

### Autos & Auto Supplies

MICHELIN TIRE - 175 HR 14 & rim. Ext. 2113.

69 PONTIAC LEMANS - 8 cyl, ps/pb, auto trans, new brakes, shocks, tires & muffler. \$550. 325-0482.

AM RADIO - For up to '74 Dodge van, good cond. cond. \$20. John, Ext. 3292.

70 FORD VALIANT - 75,000 mi, excel cond. \$700. Sethu, Ext. 2277, 928-9448.

5 RADIALS - H78-15 steel belted, 4 have 6000 mi, 1 has 2000 mi, \$165 all. Bob, Ext. 4547, 473-3987.

RIMS - (2) 15" 5-hole VW, \$5; (2) 13" 5-hole, \$3. 727-5912.

MIRRORS - Pair west coast fender mounted, like new. \$10. Frank, Ext. 4095.

66 CHEVY - 283 cu in V8, auto, r&h, new shocks, good town car. Asking \$300. Frank, 4095.

75 BUICK CENTURY WAGON - Beige ext, saddle int, new cond, ac, ps/pb, auto, radio. \$3000. Bob Roosa, Ext. 3533.

66 BUICK SKYLARK - 310 V8, auto, 4 dr, for parts. Hugh Rhodus, Ext. 3284, 924-3522.

69 CHEVELLE SS - 396-375, 12,000 mi, new transmission, new starter, 2 elec fuel pumps, 411 gears, headers, 10" MT's. \$1800. Ext. 3354, 924-7310.

TIRE - B78-14, never used. \$20. Ext. 4173, 281-4549.

RADIO - Philco am, plays well. \$20. Ext. 4173, 281-4549.

69 OPEL GT - Interior immac, body good, metallic blue, eng strong, 66,000 mi. Carl, Ext. 2359.

67 CADILLAC - All new components, very good cond. Ext. 3828, 751-7250.

BATTERY - Sears 42-mo, used less than 5 mo. \$25. Ext. 4173.

2 TIRES - C78-14, under 3000 mi, on 4-hole Ford rims. \$20 each. Ext. 4173, 281-4549.

70 HONDA - 350, road & trail, 9000 mi, like new, must see. \$550. Ext. 4581.

67 CADILLAC - Ps/pb/pw, am/fm 8-track, white w/ black roof, good cond. \$700. Frank, 744-0819.

69 OLDS - 442, 1200 mi on 396 Chevy eng, new paint job, Cragers, stereo sys, high perf, 4 spd, full gauges, mechan excel. \$2500. Ext. 3148, 588-3359.

73 VEGA GT - 4 spd, radio, hatchback, clean. \$650. Walt Lindsay, Ext. 3006.

73 DUSTER - Excel cond, 318, 3 spd on floor, headers & cragers. \$1800. 475-3657.

5 WHEELS - Chevy 16" w/tires. \$10. Ext. 2350.

68 FORD GALAXIE 500 - 2 dr, hdt, sm V8, excel mech, good reliable trans. \$350. 286-2320.

74 FIAT WAGON - 38,000 mi, roof rack, excel cond. \$1850. 325-0233.

75 PINTO WAGON - Std shift, new tires, ac, like new. \$2000. Ext. 3593.

72 PLY DUSTER - 66,000 mi, std, 6 cyl, 20 mpg, good cond, orig owner, best offer over \$1000. 281-1419.

72 PLY DUSTER - 20 mpg, standard-column, good running cond, reliable, must sell. \$950. Donna, Ext. 3604.

73 PLY ROAD RUNNER - Excel cond, orig owner. Linda, Ext. 3199, 727-7304 after 5.

70 FORD FAIRLANE - 76,500 mi, V8, 302 cu in, auto, ps, good cond. Asking \$925. Ext. 3130, days & eves.

72 PLY SATELLITE - 2 dr, V8, some body damage, needs brakes, running cond. \$400. Ext. 2419.

65 PLYMOUTH - Barracuda, good running cond, recent battery & brakes. \$225. 732-8853.

TIRES - 650 x 13, \$10 & \$15, free installation. Fred Usack, Ext. 4597 lunch only, 475-4935 eves.

RADIAL TIRES - DR78-14, GR78-14, 155 x 12, free installation. Fred Usack, Ext. 4596 lunch only, 475-4935 eves.

76 CAMARO - 6 cyl, auto, am/fm, metallic blue w/ white int, excel & immac. \$3900. 924-3756 after 5.

72 BUICK SKYLARK - 350 V8, ps/pb, auto, center console, gauges, heavy duty cooling & suspension, am/fm, low mi, excel cond. 283-0475 after 6.

68 INTERNATIONAL - Travel all, 4 wheel dr, snow plow, mint cond, 3 sets tires, am/fm stereo. \$2000. 286-8758 after 5.

76 HARLEY DAVIDSON - 125cc, 250 mi, dual purpose, excel cond. \$600. 286-8758 after 5.

71 VW - Super beetle, 55,000 mi, am/fm, auto. \$1150. Ext. 4484, 473-3305.

71 YAMAHA - 350cc, excel cond. \$545. Ext. 3688.

INDULGE YOUR FANTASIES - Suzuki 500, excel cond w/many extras, must sell, \$500, true bargain for newcomer or aficionado. Bill, Ext. 2341.

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71 YAMAHA - 350cc, excel cond. \$545. Ext. 3688.

AIR CONDITIONER - 10,500 btu, 12 A, Westinghouse, very good cond. \$100. Ron, Ext. 4449.

PORTA POTI - Perfect & clean w/base & chemical. \$50. Phil Warner, Ext. 4722.

AIR CONDITIONER - Fedders 6000 btu, 2 spd fan, thermostat control, independent fan, clean. \$75. Phil Warner, Ext. 4722.

AIR CONDITIONER - Chrysler airtemp, 15,000 btu, cools 3 rms. \$150. 744-3784.

AIR CONDITIONER - 20,500 btu, used 2 seasons. \$200. 286-1097.

ATTIC EXHAUST FAN - 48", \$30; commercial floor waxer, Sears, used twice. \$75. Jean, Ext. 3298, 878-2172.

PUPPIES - Yellow labrador retriever, AKC champions & hunting stock. 3 wks old. 399-0531.

OAK DRESSER - Antique w/mirror. 363-6597.

TELEPHONE - W/plug in jack, black. Asking \$8. Joe, Ext. 4069.

10' DIVING BOARD - Fiberglass. Best offer. 286-8758 after 5 p.m.

FREE - 4 lengths 2 in galvanized pipe. AT6-1253 eves.

SEWING MACHINE - Singer Touch & Sew II Model 778, free arm and fashion discs, brand new cond. \$250. 924-7044.

75 DUTCRAFT - Travel trailer, air cond, am/fm radio, many extras. \$4995. 744-0451.

66 MODEL REFRIG - Frigidaire, like new, 20 cu ft. \$20. 281-2095.

STEREO - Decca am/fm radio, inputs for tape and guitar w/Garrard record changer, 2 speakers. \$85. 581-9199.

CAMPER - 11 1/2' slide on, 1973 self-contained, must be seen, sacrifice. Ext. 4051, 286-0436.

GIUITAR - \$10; 2 stereo speakers, needs rebuilding, w/good cabinets & 12" woofers; \$35. Ext. 3486 or 473-1727.

SPANISH - Wrought iron type decorations, 6 pieces. \$55. Bob Wieser, Ext. 3080.

THERMAL DRAPES - 2 pinch-pleated panels, each 75" wide, 83" long, brick color, very gd cond. \$20. 821-0250.

GIRL'S PARTY DRESSES - 3T, 4T, 5, \$1-5; raincoat set, 4T, \$2; white ice skates, size 10, \$1. 821-0250.

TV - B&W, excel cond. \$50. Ext. 2305, 3104.

2 BOY'S BICYCLES - 20" Banana seat, rise bars, almost new. \$50 ea, 2 for \$80. Ext. 2305, 3104.

DISWASHER - Kenmore, \$50; houseplants. 878-4878.

COLOR TV KIT - Heathkit 25", pc boards completed, complete with manual, model GR-295, tube type, sells for \$450. Only \$275, less cabinet. 475-2557.

CAR RADIO - Deluxe push-button Audiovox am, new. \$20. 581-9199.

GIUITAR - Electrical w/case. Asking \$25. Ext. 2302, 727-1931.

HIKING BOOT - Size 5 1/2 men's, new. \$35. Frank, 799-4896.

POOL LADDERS - (1) 3 1/2'; (1) 4', \$10 ea. Frank, 799-4896.

REESE HITCH - Any reasonable offer. Martin, Ext. 2547, 281-5328.

AIR COND - Fedders 7300 Btu, 11.5 amp, hardly used. \$100. 924-3066.

GE RANGE - White, electric, 220 v, needs some work. \$25. 331-1203 after 5:30 p.m.

GE REFRIG - Like new. Ext. 3120 or 924-3831.

RIDING MOWER - Huffy 8 hp, used one season, like new cond. \$200. Azara; Ext. 4701.

20" GIRL'S BIKE - High riser, coaster brakes, good cond. \$20. Ernie, Ext. 4291, 727-2861.

WELL DRIVING OUTFIT - 1 1/2", complete \$25; Sheridan air rifle, like new, with 3 cans of pellets, \$35. 878-0717.

SHALLOW WELL PUMP - Demming double piston type with spare parts, \$50; 52 gal "John Wood" elec hot water heater, \$25. 878-0717.

76 MASON MARCO CAMPER - For mini pick up truck, all options, orig owner. \$2500. Phil, Ext. 4173 or 399-2070.

GE FANS - 20" multi purpose 3 spd + on/off 110 V low amp, expansion window mounts, fans are reversible for intake or exhaust, used only 40 hrs, must see. \$45. 289-6490.

SHOP VAC - 10 gal dry, like new, has rollers for base and all attachments. \$25. 289-6490.

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

MEDFORD - 1 bedrm, appl, ac, rec facilities, w/w carp. \$29,500. 732-5252, 286-0838.

MEDFORD PINES - Mother/daughter, 7 appl, 2 baths, 4 bedrms, \$5000 over mortgage. David, 924-7516.

SHIRLEY - 3 bedrm split, fp, cellar, garage, pool, fenced, hot water oil heat. \$36,000. 281-0918.

SHOREHAM - Immac 3 bedrm, den, 1 1/2 baths, w/w carp, landscaped. \$37,500. 821-0761 after 5:30.

SHOREHAM N - 4 bedrm lg colonial, 2 1/2 baths, den w/fp. \$55,000. 744-3660.

SHIRLEY - 5 rm hse on Unchachoque inlet, 50 x 300 lot. 281-5328.

RIDGE - 42 x 28 ranch w/full bsmt, 113 x 100 lot, lake rights. \$32,900. 929-8723 after 5.

MASTIC BEACH - 3 bedrm ranch, 1 1/2 baths, 100 x 100 corner lot, immac. \$31,000. 281-7531.

WADING RIVER - 3-4 bedrm cape, 3/4 treed acre, fp, w/w carpet, full bsmt. \$49,900. 929-8313 after 5:30.

ROCKY POINT - 3 bedrm ranch, full bsmt, w/w carp, many extras, low 30's. 744-7498.

150 UPSTATE NY ACRES - Sell all or part, good road frontage, util. Ext. 3688, 363-7032.

PATCHOGUE VILLAGE - 3 bedrm ranch, exp attic, fin bsmt, al appl. \$34,000. Ext. 2951, 475-7694.

PATCHOGUE - 6 rm ranch, garage, full bsmt, carp, appl, 100 x 256 fenced, pool. \$34,900. 289-0129.

ROCKY POINT - Custom 2 bedrm ranch, fp, garage, laundry rm, full cellar. \$32,000. Ext. 4068, 473-3171.

SHOREHAM - 4 bedrm cape, beautifully landscaped, 1/2 acre, 2 fp, garage w/loft. \$55,000. Ext. 4228, 744-6043.

PATCHOGUE - 5 rms, immac, dbl garage, full bsmt, low tax. \$31,500. 475-8529.

MASTIC - 3 bedrm cape, 100 x 100 corner, fp, low 20's. 399-0292 eves.

BELLPORT VILLAGE - 4 bedrm cape, country kitchen, ingrd pool. \$49,500. 286-0795.

FLORIDA - Inverness Cty, 2 lots, 80 x 80 each. \$1495 each. Ext. 3284, 938-6251.

VERMONT - 1.4 acres Sugarhouse village, 10 min to Mt Snow on main road. Sacrifice \$4195. 938-6251.

BROOKHAVEN - 3 bedrm cape, possible 4th, patio, garage, fenced, 1/2 acre. 286-1201 after 6.

For Rent

SUBLET - 2 bedrm apt, Patchogue. \$255/mo. Tom, Ext. 4112, 654-0699.

VERMONT CHALET - Near recreation, theater, music, antiques. 757-5599 for rates.

SHOREHAM - 3-4 bedrm, furn, all appl, secluded acre, near Sound, beach rights. \$400/mo. 744-3350.

BELLPORT - Furn apt, 2 bedrm, no children. Ext. 2907.

BLUE POINT - 4 1/2 rm, 2 bedrm, \$300/mo incl util, security & lease. 363-6845.

SHOREHAM - 3-4 bedrm cape, garages, appl, avail immed. \$250/mo + util. 928-8251.

BELLPORT VILLAGE - 3 bedrm, 1 1/2 baths, full bsmt, excel location, woods, stream. \$400/mo. 286-0407.