

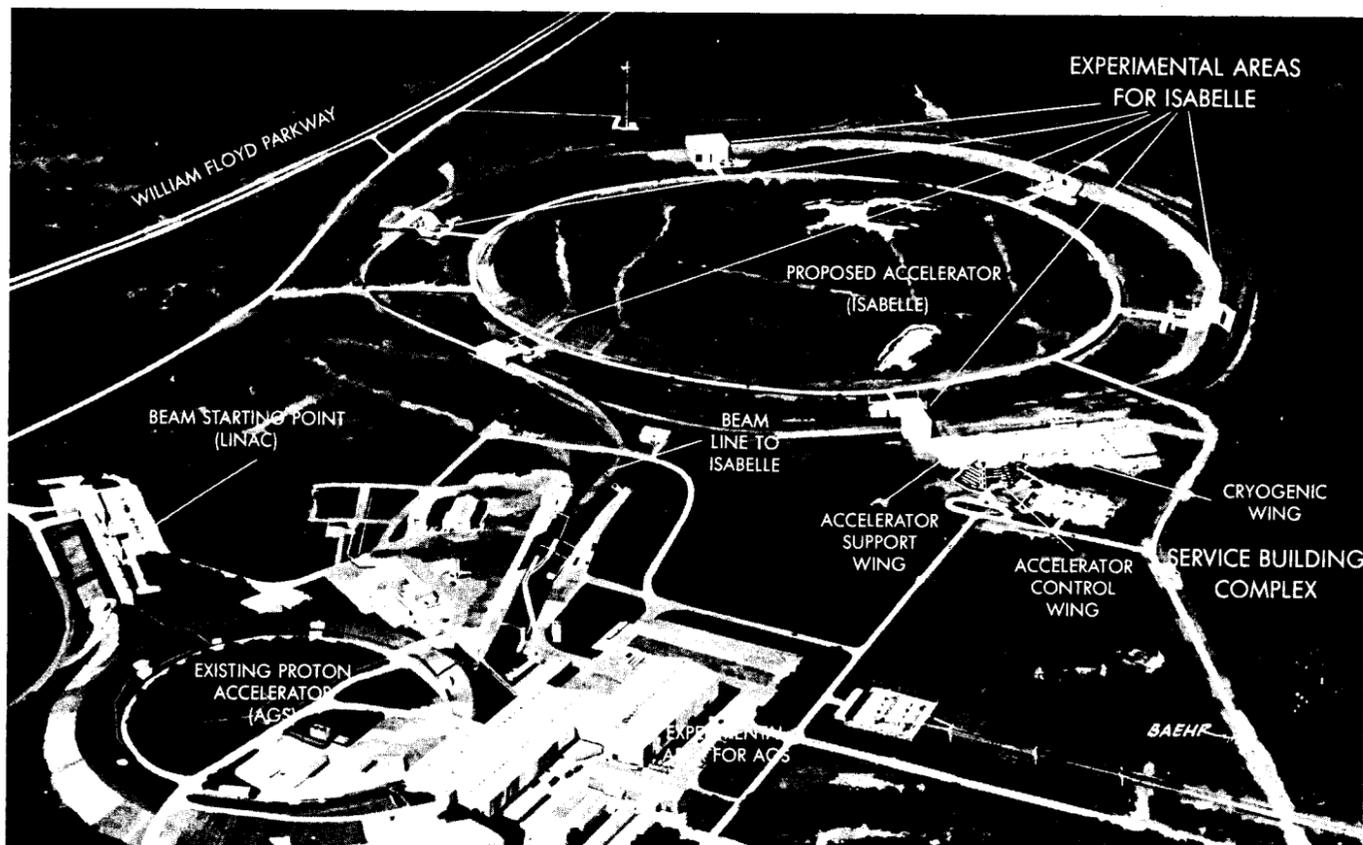
## Gertrude Goldhaber Elected APS Councillor

Gertrude S. Goldhaber has been elected a Councillor-at-Large of the American Physical Society for a term of four years. She was among eight nominated for the post.

Dr. Goldhaber said she believes that in addition to furthering pioneer work in all branches of physics, the APS must strive to foster the understanding of physics by the public at all levels of education. As a member of the governing board of the APS, she said that she will also do everything she can to promote a greater acceptance of women in science.

Gertrude Goldhaber received her Ph.D. in physics from the University of Munich in 1935. After four years as a research associate at Imperial College, London and 11 years in research and teaching at the University of Illinois, she joined the staff of the Physics Department at Brookhaven in 1950. Her particular research interest is in models of the behavior of protons and neutrons in atomic nuclei. She was elected to the National Academy of Sciences in 1972, has served on many advisory committees and is a member of numerous professional organizations.

Also elected as Councillors-at-Large were Professor Lee Grodzins of MIT and Dr. Mary Beth Stearns of the Ford Motor Co.



Artist's rendering of Project ISABELLE as of January 1978.

## Prospecting For Isotopes

David E. Alburger, Physics Department, will explore the subject, "Heavy Ions and Rabbits - The Search for New Isotopes," in the 155th BNL Lecture at Berkner Hall on Wednesday, February 8 at 8 p.m.

Nuclide charts are a convenient way of displaying the isotopes of all the elements and listing some of their properties in a separate box for each isotope. Viewing the chart as a crossword puzzle, the 'up' is the sequence of elements and the 'across' is the sequence of isotopes of an element, which differ only in the number of neutrons in the nucleus. Some isotopes are stable, while others, if they have too many or too few neutrons, are radioactive.

Imagine that the crossword is laid on the floor and that the box representing each isotope is raised depending upon the energy it possesses. The chart becomes three-dimensional with an unusual surface. A deep valley runs diagonally from the lower left corner to the upper right corner. Along this



David Alburger

'valley of stability' lie all of the stable isotopes found in nature. The radioactive isotopes, produced mostly by artificial means, lie on the hills on either side of the valley. As they decay, they lose energy and transform into nuclides closer to the valley.

(Continued on page 2)

## ISABELLE Gets Presidential O.K.

When the President's budget package for the 1979 fiscal year was unwrapped on January 23, it contained a request important to Brookhaven and to Long Island - full authorization for ISABELLE and \$23 million in construction funds for the fiscal year beginning October 1, 1978. The news from Washington that Presidential approval of the giant atom smasher was official created much excitement at Upton and capped seven years of research and development on the accelerator proposal.

Laboratory Director George Vineyard said that ISABELLE will produce an enormous scientific step forward and will maintain the nation's preeminent position in this most fundamental field of research.

Commenting from his Washington office, Gerald F. Tape, President of Associated Universities, Inc., had this to say:

"The request by the President for the authorization of ISABELLE is most significant. It is a reflection of the nation's commitment, not only to long range research, but also to large scale research when required for the exploration of new domains of science. Furthermore, the establishment of the ISABELLE facility will continue to strengthen important interactions among the international community of high energy scientists, the universities, the Brookhaven National Laboratory and the Federal government. Associated Universities, Inc. commends all, both in and out of government, who through their diligent efforts have contributed to the ISABELLE project and have made possible this important step in the project's evolution from concept to reality."

A major physics research project proposed by the Department of Energy to be built at Brookhaven, the intersecting storage accelerator is estimated to cost \$275 million over a seven year construction period. To date, \$6.75 million has been received to allow work to proceed on planning, design and initial staffing. With the newly announced \$23 million, essential materials can be purchased and ground breaking could be expected to take place this year on the northwest quadrant of the Laboratory site.

The construction of the accelerator will have significant economic impact on Long Island. An average of 450 workers are expected to be employed during each year of construction and, after the machine is operating, the Laboratory staff will be increased by about 200 new employees. It is estimated that over \$100 million will be expended for labor and material in the New York metropolitan area during the

construction years.

At present, about 85 people are staffing Project ISABELLE. They work out of the old Cosmotron and this building will continue to serve as administrative HQ during the construction period.

"In 1971 when the AUI Special Committee, headed by Val Fitch of Princeton, strongly recommended that Brookhaven pursue the construction of a 200 x 200 GeV proton-proton colliding beam facility, none of us then involved would have guessed it would take nearly seven years before the President requested funds for its construction," said Associate Director R. Ronald Rau. "Fortunately, the study and hard work have been rewarding beyond expectations to all of us."

"This is a moment when I personally want to congratulate all of the staff for their excellent and dedicated work leading to the present 400 x 400 GeV design," he said. "I am totally confident that we will succeed in building a marvelous, exciting forefront research tool which at completion will make great contributions to an understanding of the fundamental particles of nature."

ISABELLE consists of two high energy proton accelerators arranged concentrically in a circular tunnel in such a way that counter-rotating beams of protons collide head-on at six locations around a 2½ mile ring. At each collision point around the ring experimental stations will be located where physicists will set up large detector arrays to study the particles produced in the violent collisions.

The only other proton-proton colliding beam machine is at CERN where 30 GeV proton beams collide, giving a center-of-mass energy of 60 GeV. ISABELLE will be able to operate at this level and extend more than 13 times higher in energy than the CERN machine. Other important high energy facilities are at the Stanford Linear Accelerator Center (SLAC) in California and the Fermi National Accelerator Laboratory (Fermilab) in Illinois. In the colliding beam electron device at SLAC, electrons and positrons will collide, releasing 30 GeV of energy. At Fermilab, the proton beam energy of 500 GeV is to be increased by the building of an Energy Doubler ring of superconducting magnets.

Brookhaven was one of the first national laboratories devoted to basic research and ISABELLE will continue the tradition. The Cosmotron, completed in 1952, was the first accelerator to provide energies up to 3 billion electron volts. It was followed by the 33 billion electron volt Alternating

Gradient Synchrotron (AGS) which continues to be used by scientists throughout the world. At the AGS in 1974, a team of researchers from Brookhaven and the Massachusetts Institute of Technology headed by Professor S.C.C. Ting of MIT discovered the J-particle. For this discovery, Professor Ting shared the 1976 Nobel Prize in Physics. As the next step in its long and useful life, the AGS will serve as a source of protons for ISABELLE, the third generation accelerator at Brookhaven.

Although the \$23 million recommended by President Carter still has to be approved by Congress, no major problems are anticipated. The ISABELLE proposal was closely examined by the relevant Congressional committees and \$5 million appropriated for the project in the current fiscal year.

"It is a very upbeat moment for us," said Project Head James Sanford. "People have worked for such a long time and the fact that the President included ISABELLE in this budget, should be a source of hope for the long term high energy program at BNL."

### More Than Enough

Because of the serious shortage in the blood bank on Long Island and the metropolitan area, Brookhaven scheduled a blood drive on Thursday, with an original goal of 150 donors. The response from employees was tremendous and many were turned away. The drive was finally limited to 255 donors as the blood drive staff could not process a greater number. Many thanks are due to those who gave their blood in this emergency.

### For The Marshallese

Donations of summer clothing for adults and children (preferably laundered), games and small toys, are requested for the Marshallese people of Rongelap and Utirik Islands in the Pacific. These donations will be presented as a gift from Brookhaven employees by the BNL Medical Team at the time of the examinations in April. If you have donations please leave them with Mrs. Hull, receptionist at the Medical Department before March 1. Please note used clothing should be laundered.

## Speakers Bureau

### January

January 6 - **Irvin Meyer** (Chem.), Norwood Avenue School, Northport, **Glassblowing Demonstration**  
 January 10/11 - **Harvey Thomas**, (DO), Adelphi University Career Day Workshop: **Engineering**  
 January 11 - **Martin Plotkin** (Accel.), Adelphi University Career Day Workshop: **Science**  
 January 11 - **Marian LeFevre** (Med.), Adelphi University Career Day Workshop: **Biology**  
 January 18 - **Robert Hoppe** (DEE), American Association of University Women, **Energy Conservation**  
 January 26 - **R.C. Anderson** (DO), Sayville Kiwanis Club, **Energy Options for the Future**

## New In Staff Services

James Vance arrived at the beginning of the year to take up the post of Telecommunication Services Coordinator. In this job he will first be responsible for Brookhaven's telephone system, a service which currently costs the Laboratory over \$1 million a year.

He and other Staff Services personnel are now working with the Computer Sciences Corporation, who are under contract to DOE, on a two-week survey of the Laboratory's telephone system. The findings of this detailed survey will affect the design of a new or upgraded telephone system. In the course of his work, Vance will be contacting the various departments to determine just what each unit needs and how best to give it to them.

Vance received his bachelor's degree in communications from Florida State University at Tallahassee. After graduation, he spent three years as a captain with the Army Air Defense in Chicago. Following his release from the Army, he went to the Allstate Insurance Co. in Atlanta where he worked in an administrative capacity for three years. In 1970, he joined the staff of General Telephone of Florida in Tampa where he remained until his move to Brookhaven.

Vance, his wife and three children are currently living onsite and are looking for a house in the area.



James Vance

## Missions Possible

Kenneth Hoffman, Chairman of the Department of Energy and Environment, will review the programs and objectives of this new department in a BNL Lecture "Energy and Environment - Mission Possible," on Wednesday, February 1, at 3 p.m. in Berkner Hall.

DEE performs basic and applied research as well as technology development in the two areas noted in its title. Research and development will play an extremely important role in the ultimate resolution of these two critical and inter-related problems. Work is also in progress on the application of scientific and engineering knowledge to energy and environmental policy issues.

## For Your Information

Effective February 4, 1978, the Chicago Operations Office will convert to Centrex telephone service. Here are the new numbers:

Commercial prefix - 972  
 FTS prefix - 972  
 TWX - 910-258-3285  
 Dacom - ext. 2346  
 Xerox - ext. 2204  
 3M - ext. 2206  
 Message center - ext. 2210  
 24 hour emergency reporting - ext. 5731

## Upton Nursery School

The Upton Nursery School is still considering having an afternoon session for 3 and 4 year old children of BNL employees. If you are interested and have any questions, please contact Barbara Pringle, Membership Chairman at 728-9639.

## CREF Values

1977			
January	\$40.27	February	\$39.30
March	38.73	April	38.73
May	37.96	June	39.91
July	39.91	August	38.56
September	38.65	October	36.91
November	38.01		
December	\$38.21		

### John Maynard Keynes 1883-1946

Newton was not the first of the age of reason. He was the last of the magicians, the last of the Babylonians and Sumerians, the last great mind which looked out on the visible and intellectual world with the same eyes as those who began to build our intellectual inheritance rather less than 10,000 years ago.

### Emily Dickinson 1830-1886

Faith is a fine invention  
 For gentlemen who see;  
 But microscopes are prudent  
 In an emergency.

### Joel Henry Hildebrand 1881-

A child of the new generation  
 Refused to learn multiplication.  
 He said 'Don't conclude  
 That I'm stupid or rude;  
 I am simply without motivation.'

—from *The Harvest of a Quiet Eye*,  
 by Alan L. Mackay

## BNL Lecture

(Cont'd)

Nuclear physicists study how steep the hills are and how high one can go away from the valley of stability into the regions of 'exotic' new isotopes. This uncharted territory is being explored at the Tandem Van de Graaff using the heavy ions it accelerates.

Alburger says, "it is an exciting field of study that can be thought of as 'nuclear prospecting.' Targets are bombarded with heavy ions such as oxygen-18 and then transferred in a 'rabbit' to remote gamma-ray and beta-ray detectors to see if unknown radiations are being emitted. A bit of detective work is usually needed to find out if any new isotopes are being produced. When one is lucky and finds a new isotope, its properties such as the mass are measured. Comparison of the measured properties with theoretical predictions is the principal aim of these studies."

New isotopes of boron, fluorine, magnesium, aluminum, silicon, phosphorus, and vanadium have been found thus far at the Tandem, and their half-lives range from 0.016 to 48 seconds. With recent improvements in the voltage performance of the Tandem and the development of new ion source techniques for making calcium beams, searches have begun further up the chart in heavier elements.

Some historical background on the development of Van de Graaff accelerators will be presented in the lecture, along with easily understood explanations of how these machines work. The Van de Graaff uses the simplest of all possible ways to accelerate particles and perhaps the hardest thing to remember, says Alburger, is the spelling of the inventor's name.

Before the war, Alburger attended Swarthmore College, graduating in 1942, and then spent the war years at the Naval Research Laboratory in Washington, part of this time in naval service. He came to Brookhaven in 1948 after completing his graduate work at Yale University. For many years he headed the 3.5 MeV Van de Graaff accelerator group. Alburger spent a year at the Nobel Institute of Physics in Stockholm and has made numerous visits to the Center of Nuclear Research in Strasbourg, France. In 1962 he initiated the Tandem Van de Graaff project, which was subsequently directed by Harvey Wegner, and has since devoted himself solely to research.

A buffet supper will be served in the Brookhaven Center before the lecture beginning at 6:30 p.m. Reservations should be made in advance by calling Ext. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

## Attention Aliens

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

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

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

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

## Beckner and Levine Win BERA Election

Carol Beckner of Technical Information and Gerald Levine of Safety and Environmental Protection were voted winners of the 1978 BERA Board Election.



Gerald Levine



Carol Beckner

Carol and Gerry will replace outgoing Board members Ken Batchelor and Jo Gazzola, and will be joining continuing members Bob Brown, Helen Keeley, Marge Stoeckel and Gail Williams beginning on March 1.

The Board would like to thank the nominating committee, the candidates, and most importantly, the voters who came out to cast their ballots despite the adverse weather conditions.

## 1978 Bumper Stickers

The Police Group has sent a supply of automobile registration forms to each department for distribution to employees. Completed forms should be returned to Police Headquarters and a numbered bumper sticker will then be mailed back to the applicants. As in the past, the sticker is to be placed on the left front bumper.

Since a spot for the department name was inadvertently omitted on the registration form, it will expedite matters if the employee notes his or her department on the bottom of the form.

1977 bumper stickers will not be valid after February 28.

## Service Awards



Medical Department Chairman Eugene Cronkite (left) recently presented service awards to (seated) Edith Smith (10 years), (standing) Betty Figliuzzi (20 years), and Clyde Sipe (20 years).

**KNOW  
 WHAT'S BEHIND  
 BEFORE  
 BACKING UP**

# BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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

## Come In From The Cold

Don't forget! This weekend and next: January 27 and 28, February 3 and 4, the Theater Group's hilarious production of two one-act comedies "After Magritte" and "Public Eye," at Berkner Hall. Curtain time is at 8:30 p.m.

Tickets cost \$3.00 for employees and guests and \$2.00 for those under 18 years or over 65. They are on sale at lunchtime in the cafeteria or available in the following buildings via:

Gail Williams	Building 460
Helen Keeley	911A
Paula Hughes	902
Bob Kinsey	197C
Audrey Bangel	703
Maureen Devereux	750
Annette Mazzeo	515
Irene Steele	463

## For The Birds

The snow and ice have once more locked up the natural food supply of the birds. If you are feeding our feathered friends you should continue to do so until sometime in April as the birds become dependent on your feeding station.

The Environmental Centers of Setauket-Smithtown are cooperating with other conservation organizations to sell bird seed at reasonable prices. For example, prices range from \$3.80 for 25 pounds of wild bird seed to \$12.70 for 50 pounds of sunflower seeds. A wide variety of seed is for sale.

To receive an order blank and further information, call 979-6344, 751-1474, 265-5793, or 862-9329. The closing date for orders is January 31. Seed may be picked up on Saturday, February 11, from 10 a.m. to 4 p.m. at the Mills Pond House, 660 Route 25A in St. James.

## BERA Film Special

Effective immediately and extending through March 14, the BERA Sales and Services Office in the Cafeteria is offering a special on Kodak enlargements. If you buy two 5x7 or larger enlargements, from the same size negative or slides, you get a third one free of charge.

For further information call Rae at extension 3347, between the hours of 11:00 to 3:00, Monday through Friday.

## Mountain Club

For those interested in the Caving Trip on February 4, there will be a meeting on Thursday, February 2 at 12 noon in Room "A" of Berkner Hall.

## Emergency Closings

Here is the list of radio stations that carry news of closing or late opening of the Lab on snowy days:

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	—
WRIV	Riverhead	1390	—
WWRJ	Southampton	—	95.3
WBLI	Patchogue	—	106.1
WRCN	Riverhead	—	103.9



## Snowbound At Upton

During the big blow on Long Island last week, 14 inches of snow fell at the Laboratory from Thursday evening until the snowfall ceased Friday evening. The winds which gusted to 35 mph started out southeast and veered to northwest by Friday evening.

Coping with all the problems both during and after the storm were Laboratory maintenance crews, firemen and police. Road clearing crews started work Thursday evening and worked around the clock until Saturday, when fresh crews arrived. Their main problem on Friday was trying to keep the main roadways clear as the wind promptly threw the snow back on the cleared areas.

Seven members of the Fire Group were able to make it in on Friday morning and the midnight shift stayed on. They responded to alarms, power failures and cleared snow from fire hydrants and other areas for which they are responsible.

The Police midnight shift was also held over and two Laboratory police managed to get to work Friday morning. Over the weekend they responded to about 30 calls from people who had snowbound cars and also transported stranded persons in the apartment area to the cafeteria.

On Friday morning the police received between 400 and 500 calls asking if the Laboratory was closed and many of the calls came in on the 2222 emergency number. Employees should not call police HQ to verify radio announcements and by no means should they use the 2222 number to request information. This number is to be used to report emergencies only. Radio announcements are made only after they are called in by a Laboratory official using a special identification code, so there is no need to double check.

## Adult Swim Lessons

A ten-session course of adult swimming instructions is being offered to employees and spouses. Beginning on February 8, classes will be held each Wednesday night from 5:15 to 6:15, and a fee of \$12 will be payable during the first class.

Enrollment is limited to 30 people; however, a waiting list will be maintained in case of any openings.

All those interested may sign up at the swimming pool during normal open hours: Monday through Friday - 11:30 to 1:30 and 5:00 to 9:30; Saturday and Sunday - 1:00 to 6:00.

## Arrivals & Departures

### Arrivals

Catherine P. Chia	Biology
David Crowther	Biology
James R. Cullen, Jr.	Accelerator
John J. Keohane	Energy & Env.
Dimitrios Kordiolis	Central Shops
Laurie H. Rhodes	Adm. Sys. & Data Proc.
Gregory S. Rosche	Nuclear Energy
Doreen A. Schneider	Energy & Env.

### Departures

Azizullah N. Ansari	Medical
Charles H. Nauman	Biology
Michal Pelzig	Medical



## Selected Reading

- Environ. Sci. Technol. 11, November 1977  
SCOPE: The environmental voice of world science. R.E. Munn and M. Cain. 1056-60
- New Sci. 76, November 3, 1977  
A fashionable fallacy: Do "social and economic conditions" determine scientific advance? M. Hammerton. 274-5
- Britain before man: London's Geological Museum opens new popular exhibition. F. Dunning. 296 (+i-iv)
- New Sci. 77, January 12, 1978  
Information at the touch of a button. D. Magrill. 76-9
- Professor Shuster: A reply. R. Ryder. 82-3
- Jacob Bronowski: An appreciation. R. Reid. 94-5
- Bull. At. Sci. 34, January 1978  
West Valley: Remnant of the AEC. G.I. Rochlin, M. Held, B.G. Kaplan and L. Krueger. 17-26
- The Carter energy plan and the American West. D.F. Anthrop. 27-33
- A technological magistrature. G. Bugliarello. 34-7
- Sci. Am. 238, January 1978  
The carbon dioxide question. G.M. Woodwell. 34-43
- Science 199, January 13, 1978  
Nuclear weapons history: Japan's wartime bomb projects revealed. D. Shapley. 152-7
- Pollution: Chemical company's effort to sue its accuser fails. T. Maugh II. 157-60
- Sci. Gov. Rep. 7, December 15, 1977  
TV forum airs appeals for boost in R&D. 6-7

## Volleyball

### Employee's League

On January 18, the Spikers swept the Cool Tools: 21-6, 21-12, 21-14. The Bumps edged out Phoenix: 21-17, 21-18, 14-21. Biology took all three games from the Atom Spikers, 21-0, on a forfeit.

#### Standings

Spikers	13	2	.867
Bumps	9	3	.750
Phoenix	8	4	.667
Cool Tools	9	6	.600
Biology	5	7	.417
Easy Aces	1	11	.083
Atom Spikers	0	12	.000

### Mixed League

#### Division A

On January 23, the Popovers' dynamite serving beat the LeMufs: 9-15, 15-3, 15-6. Lookin' Good beat the Nads: 15-4, 15-10, 12-15. No Names swept the Assorted DO-E-Nuts: 15-5, 15-1, 15-13.

#### Standings

No Names	10	2
Lookin' Good	9	3
Popovers	7	5
Nads	5	7
LeMufs	3	9
Assorted DO-E-Nuts	2	10

### Mixed League

#### Division B

On January 23, the Nuts & Bolts juggled numbers and beat the Leftovers: 15-9, 9-15, 15-9. The Diamonds shone over Cowturkey: 15-9, 15-7, 15-7. Oceanography swept Riffraff: 15-0, 15-6, 15-1.

#### Standings

Nuts & Bolts	10	2
Diamonds	9	3
Oceanography	9	3
Leftovers	4	8
Cowturkey	2	10
Riffraff	2	10

## Bridge Team Wins Two

Playing at home in the Brookhaven Center, the BNL Bridge Team registered its second win in The Long Island Industrial Bridge League by a score of 27 to 13 victory points over a combined Sperry Gyroscope/Chemical Bank team.

Bill Sampson (Accel.) and his wife Joanne played as anchor pair for all twenty-four boards at the match. Barclay Jones (Chem.) and his wife Pat played in the first half, and Arnie Dubow paired with captain Colin Durston (both DNE), completed the team for the second half.

The BNL Team won 6 boards, lost 2, and tied 4 in the first half to win by 3 imps (international match points) and 12 to 8 victory points. The second half statistics were 4 boards won, 5 boards lost, and 3 tied for a win by 17 imps and 15 to 5 victory points, giving an overall win by 27 to 13 victory points.

## Cafeteria Menu

### Week Ending February 3, 1978

<b>Monday, January 30</b>	
Cream of mushroom soup	
Chicken a la king on rice	1.10
Cheese omelet & 1 veg.	1.15
Hot deli - Pastrami	
<b>Tuesday, January 31</b>	
French onion soup	
Chinese pepper steak on rice	1.25
Barbequed spare ribs & black eyed peas	1.35
Hot deli - Sloppy Joe	
<b>Wednesday, February 1</b>	
Split pea soup	
Breaded flounder filet & fr. fr.	1.20
<b>Special</b>	
Spaghetti w/meat sauce & garlic bread	
ALL YOU CAN EAT	
\$1.20 plus tax	
Hot deli - Baked Virginia ham	
<b>Thursday, February 2</b>	
Cream of chicken soup	
Beef hash & 1 veg.	1.15
Veal Parmigiana & 1 veg.	1.20
Hot deli - Meatballs	
<b>Friday, February 3</b>	
Manhattan clam chowder	
Broiled filet & 1 veg.	1.15
Meatloaf & 1 veg.	1.15
Hot deli - Roast beef	

# Classified Advertisements

## Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

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

485. CHEMISTRY ASSOCIATE - BS/MS or equivalent in chemistry and background in thermodynamics and kinetics required. Additional experience in the construction, operation, and analysis of high temperature experiments would be desirable. Department of Nuclear Energy.

486. TECHNICIAN - Requires an AAS or its equivalent in electrical or mechanical technology and good background in experimental techniques. Experience with ceramics, steam and gas flows, induction furnaces and plasma heat sources desirable. Department of Nuclear Energy.

487. TECHNICIAN - Requires AAS degree or equivalent in electrical technology and background in industrial control and communications systems. Familiarity with 480 volt 3 phase power systems desirable. Accelerator Department.

488. OFFICE SERVICES ASSISTANT - Requires ability to maintain large printed report file, including necessary clerical duties and unpacking of reports. Good typing ability necessary. Background in computer terminal operation may be useful. Technical Information Division.

## Autos & Auto Supplies

2 SNOW TIRES - H78-14 on GM rims, used one season. \$60. Rich, Ext. 2495.

74 PONTIAC CATALINA - 2 dr, V8, ps/pb/ac, am/fm. \$2200. Lew, Ext. 2462, 928-4863.

2 SNOW TIRES - Sears, dynaglass C78-13, almost new, balanced and mounted on Toyota rims. \$50. George, Ext. 2296.

66 PONTIAC LEMANS - 3 spd on floor, 2 dr, 8 cyl, 326 eng, r&h, good cond. 475-2069 after 5.

70 VW - New generator, new battery, very good cond. Asking \$800. Irene Merritt, 589-5126.

70 FORD TORINO - Low mi, 2 dr, hdt, ps/pdb, good cond. \$750. 589-0208.

71 PEUGOT - 4 dr auto, 56,000 mi, good cond, book value. Ext. 2534.

71 OPEL - 1900 wagon, very good cond, auto, new brakes, snow tires. \$725. Michael Kenny, Ext. 4005, 345-3070.

71 VW - Sedan, beetle, excel body, low mi on rebt eng, mounted snow tires. \$1100. 286-8543 after 6.

65 ALFA ROMEO - Spyder, 47,000 mi, all orig, hdt, new tires, never raced or wrecked. \$2000. 924-3338.

69 FORD VAN - 6 cyl, auto, good rubber, 75,000 mi, carpeted, paneling, needs windshield & batt. \$1000. Steve, 862-9384.

TRUCK CAP - Chevy 6' truck cap. \$130. 585-8336 after 6.

70 FORD - Torino, low mi, 2 dr hdt, ps/pdb, good cond. \$750. 589-0208.

67 CHEVY - Belair, 6 cyl, auto, 2 dr, hdt, runs good, body fair. Good transportation. \$325. Jim, 289-1186 after 3.

## Boats & Marine Supplies

17' COBIA - Fiberglass, 55 hp Chrysler, o/b, full elec, both 1971, excel cond, little use, many extras. \$1995. 281-3122 after 6:30.

GARCIA - 7'4", 5-eye salt water fishing pole w/ Garcia Michell 407 spin casting reel, used few times. \$40. Neva Delihis, Ext. 2959.

## Miscellaneous

SKI BOOTS - Women's Rieker, 7 1/2, blue w/fur lining, excel cond, used only 1 1/2 seasons. Asking \$40. Kathy, 286-1076.

DINING RM TBL - 3 leaves & 4 chairs in good cond. 289-2159.

SNOW BLOWER - 3 1/2 hp push type. \$60. 653-5989.

IRON - Non-steam, \$2; dog muzzle, \$1; hot shave cream dispenser, \$7 new; fuse kit, 60¢. Ext. 3609.

PROJECTOR - Bell & Howell, 8 & super 8, \$50. leather accessories bag, electronic flash, tripod, light meter, etc. Bob, 928-9359 eves.

TRIPOD - Star D, standard size, \$10; boy's blk figure skates, size 1, like new, \$5. H.R. Manning, Ext. 4752.

UTILITY TRAILER - 5'x7' bed, \$75. 653-5989.

RIFLE - 30 Winchester magnum w/3x-9x scope, \$250; 22 magnum Winchester, 3x-7x marlin scope, \$150. Bob, 884-9500 after 8.

SKIS - Head 360's w/Saloman 505 step in bindings & safety strap, 200 cm, \$55; Lange Flo boots, 10 1/2, \$40. Bob, Ext. 2060, 234-2695.

CARPET SWEEPER - Bissell, used couple times, \$10; fireplace screen, antique finish, top & bottom fenders w/blk screen, \$35. George, Ext. 4460/4453.

HAM RECEIVER - Lafayette, Ha-350, good cond, best offer. John, 931-0840 after 6.

POT BELLY STOVE - 31", \$55; fireplace tools, new, \$30. Daly, 363-2497.

MAYTAG WASHING MACHINE - Portable, \$35. Theresa, Ext. 3136.

DISHWASHER - GE portable, lg capacity, white, like new, hardly used. \$100. 589-0208.

GIUITAR - 3/4 size acoustic w/case, best offer; dress-form, 32"-39" bust, \$15; twin pleated dust ruffle, \$7. Kathi, Ext. 2907, 589-8410 eves.

SKI BOOTS - Size 11 1/2, little used, leather lace up type, \$6. H. Brown, Ext. 4773, 286-9257.

STEREO - Sansui AU9090 amp, 180 watts rms, 610 cassette, Scott tuner, Interego 12.3 speakers, JVC, V15 turntable, color TV, JVC 19", most under warranty. Best offer over \$1000. Ext. 2253.

AIR HOCKEY - Electric, 48"x24", good cond, \$15. Ext. 4184.

17" TV SET - Sanyo b&w, near new, \$80; GE steam iron, \$8; 4 slice toaster, \$4. Christine Kenny, Ext. 3070.

## 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

LAKE GROVE - 5 mi from Stony Brook Univ, 2 bedrms, appl, many extras. \$20,000. 585-8336.

SHOREHAM - 4 bedrm colonial, 2 1/2 baths, w/w carp, 1 acre fenced. \$56,900. 744-2821.

SHIRLEY - Fully furn, 3 bedrms, heated fin bsmt, w/w, storms, hot water heat, must sell, will hold mortgage. \$25,000. 281-5328.

ROCKY POINT - 4 bedrm colonial, eat-in-kitchen, 2 1/2 baths, fp, w/w carp, all appl, garage, wood deck, 1/2 acre, priv beach. 744-1158.

SHOREHAM - North of North Country Rd, deeded beach rights, estab neighborhood, 1/2 acre, fp, fin bsmt. 744-5801.

CALVERTON - 15 min to Lab, 3 bedrm townhouse, 1 1/2 baths, w/w carp, fenced patio, s/s, no maintenance, ac, 5 appl. Asking \$23,000. Ext. 2978, 369-2526 after 6.

ROCKY POINT - 3 bedrm, ranch, fin bsmt, garage, 1/2 acre, priv beach, very nice house & neighborhood. Sam, Ext. 2289.

S SETAUKET - Strathmore, 5 bedrms, 3 baths, ac, w/w carp, sprinkling sys, many extras. \$55,000. 698-1785 after 5.

## For Rent

CENTEREACH - 2 bedrm ranch, 1 acre, fenced, immac, \$345+util, avail immed; Ronkonkoma, 4 bedrm on 1 acre w/barn, immac, \$400/mo+util, avail Feb 1st. 265-8827.

BROOKHAVEN HAMLET - South Country Rd, new 3 bedrm ranch, fp, unfurn. Ext. 4676.

VERMONT VACATION - 3 bedrm mobil home w/fp, nr Mt Okemo, avail weekly. Bob, 473-8186.

ROOM FOR RENT - Share facilities, util. \$30/wk. 727-9058.

ROOMMATE - To share 5-rm apt in Mastic Beach. \$125/mo, util incl. Ed, Ext. 3535/3516, 281-2177.

S JAMESPORT - Riverhead, 3 bedrm house, \$200/mo+util. Walt, Ext. 2907, 698-0576.

ROOM IN HOUSE - 20 min from Lab. \$95/mo. Danny, Ext. 3289.

## Wanted

HOME - For young male cat that cannot be kept at present residence. Very friendly. Marie, Ext. 3552.

OLD DOLLS - Buying for my personal collection. Also doll furniture, toys. Cash. 475-4199.

RUGBY PLAYERS - Old or new to join established L.I. club. George Green, Ext. 3379, 878-8952.

HELIARC - Welding machine. Prefer Linde machine. Russ, 589-0750.

BABYSITTER - For 2 yr old boy, 3 days per week, 8 am-5:30 pm, on site or Mt Sinai area. Nancy, Ext. 2211, 928-3205 after 6.

ROTOTILLER - Reasonably priced. Frank, Ext. 4518.

WILL ADOPT - Any unwanted rabbits. Noreen, 281-7873.

PIANO - Call Gyarffy, 345-3188.

GAS ENGINE - 4 or 5 hp, 4 cycle, gd cond or not. Fred, Ext. 4823, 588-2268.

TYPING - Light, sewing, & babysitting. Medford area. 475-0144 after 6.

## Car Pools

DRIVER - To complete 5 person car pool from Exit 54 I.E. Betty, Ext. 3699 or Frank, Ext. 3898.

QUAKER PATH - Stony Brook-Setauket area. Les, Ext. 2282, 751-3951.

## Services

TUTOR - Regents chemistry. Pt Jeff area. George, 928-3169.

TAXES - Prepared in the convenience of your home. Evening & weekend appointments. Very reasonable. Bob, 884-9500 or 654-1731.

NEW & USED - Tires, rims, repairs, snows, reg, radials, Dunlop, Mich. Free installation, balance avail. Luncheon, Ext. 4597, 475-4935 eves. Fred Usack.

CARE - For your daughter (2-4 yrs) my home, meals, toys + 2 playmates, excellent references. Daly, 363-2497.

PROFESSIONAL - Painting, stucco, Spanish beams, ex work, reasonable rates. Henderson, 698-0123 after 6.

SEWING - Hems, alterations. Sharon, Ext. 3312 or 3341.

BABYSITTING - Only evenings from 6 on. Reasonable. Mastic/Shirley area. Noreen, 281-7873.

MACRAME CLASSES - For beginners, 1 night/week, reasonable. Noreen, 281-7873.

KNITTING - Instructions in my home, beginner & advanced, min enrollment, very reasonable. Kristine, 281-7873.

FURNITURE STRIPPING - Varnish & paint removed, also chairs caned. 924-8547.

## 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.

(Name & Phone No. To Call)

Employee's Signature..... Life No..... Ext.....

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).