

## A Grueling Examination

One day last week the Igloo area was thick with smoke, bodies were strewn around and ambulance sirens screamed. A boiler had exploded at the Waste Management Facility. The smoke, the bodies and the ambulances were real, but the disaster was simulated and the blood and injuries carefully faked.

It was all part of the final exam of the emergency medical technicians who have been training on site for the last three months. It was also an exercise to test the Laboratory's ability to deal with emergencies.

The exercise involved three main areas: the testing of the Emergency Medical Technician trainees under the direction of Richard Skelton, who is the senior instructor and responsible for the form of the final examinations; the medical facilities, directed by Dr. E.P. Cronkite, chairman of the Medical Department; and the overall functioning of Laboratory emergency plans, which is the responsibility of Safety & Environmental Protection under the supervision of Robert Young.

Many of the eleven "victims" of the disaster were drawn from the theatre group, who did not lose this opportunity to throw



After being treated on the roof by an Emergency Medical Technician trainee, a "victim" is carefully lowered by BNL firemen who will take him to a waiting ambulance.

— other pictures on page 3

second degree burns on both hands, also had an allergy to Lidocaine, a medication used for heart problems. While she was being transported in the ambulance, she went into cardiac arrest.

There were broken arms and legs. One person who was conscious had deep lacerations of the forehead, but had difficulty communicating with his rescuers because most of his teeth were missing. One young man had a fractured right clavicle, and one ear had been severed. To make the situation even trickier, he had been contaminated by manganese-56 during the explosion when the isotope splattered on him. One victim had been thrown to the roof of the building and had to be treated there before removal.

When possible, injuries were simulated with what is known as a moulage kit. It contains equipment to represent injuries, for instance, there is padding with a bone sticking out for fractures, partial burns which can be strapped on and a face covering indicating burns of the whole face. Something that looks like blood is contained in a tube which the "victim" can squeeze and thereby drench himself in gore in the appropriate places. Anything that couldn't be simulated, such as pulse, eye reactions, allergies, were noted on a card on the victim. Otherwise, it was up to the EMT trainees to diagnose the injury and administer proper aid until the patient could be seen by a doctor.

They even had to deal with an "hysteri-

cal wife" who was worried about the condition of her "husband" who had been injured in the explosion. According to reports, she was dealt with courteously and given assurance even as the trainees were administering to the injured.

"Tricks" were built into the test. Two of the workers themselves became ill. One went into cardiac arrest and the other into insulin shock, thus leaving the other EMT worker with the problem of whom to administer to first - the patient or a colleague.

An emergency receiving room was set up in the lobby of the Medical Department and Laboratory doctors and nurses were in attendance. As the "patients" were brought in by ambulance, the medical personnel checked the tags which indicated the treatments the EMT's had given in the field.

Five ambulances were used: one from the Laboratory, two which were brought on site by EMT trainees from the Port Jefferson and Ronkonkoma Fire Departments, and two which were dispatched by County Control from Mastic and Ridge. During the drill, the Ridge ambulance was called away on a real emergency in its district but later returned.

The trainees have already spent 10 hours as observers in the emergency rooms of various hospitals. Tapes have been made of the lectures given at Brookhaven so that the BNL firefighters can refer to them and keep on top of what they have learned. Richard Skelton has also made arrangements at

(Continued on page 3)

## Educating Mother

[The United Nations has declared March 8 as International Woman's Day.]

Jane Setlow, an American scientist in the Biology Department and a grandmother, has been heavily involved in both areas of a woman's life - bringing up baby and a professional career.

This slim, peppery lady has weathered the whole mish-mash and has retained her sanity and a sense of humor. However, she does not pretend that she did it with one hand tied behind her back and readily acknowledges the support her family gave to her, particularly in the trying early years.

An undergraduate at Swarthmore, she met Richard Setlow, and they were married shortly after graduation. While her husband was in grad school at Yale, she worked for a time in the lab of a biophysicist, which jelled her interest in that area and led to her pursuit of a Ph.D. in biophysics some years later. But that was in the future. In the meantime, as she says, "we started breeding," and in the space of five years, three boys and a girl were born. She believed that if you were going to do it, you might as well get it done with, and as it turned out, the closeness in ages helped considerably when it came time to organize the household.

In between diapers and babies, she kept her hand in the scientific field by editing translations of Russian biogeochemical papers at home. But by the time the youngest child was about five years old, she decided that she would go bananas if she did not have a professional career, and so she returned to school.

How did she manage? "I guess by being young - it was incredibly difficult and I was physically exhausted all the time." Along with her studies, she did the cooking,



Jane Setlow

laundry and cleaning of the family areas. Money was in short supply, so there was no outside help. The children did all the cleaning of their own rooms, and each had other chores as well. Everyone, including her husband, became a master of the art of dishwashing.

When the decision was made for her to pursue graduate work, the Setlows moved from the suburbs into New Haven. Yale was only a short distance from their house and the children were able to make dental appointments, music lessons and the like on their own by bicycling so there was no need to transport them. If a child were sick, Setlow worried, but that was organized too. The sick child would take his temperature every three hours and telephone her at the lab. If it seemed to be getting critical, she would rush home. They knew she was within reach and didn't feel neglected.

The make-or-break time was when she was preparing for qualifying exams. Most of the other students were male, and many had wives who took care of everything for them so they could concentrate on their work. "I needed a wife at that time," she says. After the last exam, she came home to a "ghastly heap of laundry and mending" which had been ignored for a very long time. A month before when someone had said they didn't have clean underwear, she would snarl and say, "take it out of the dirty

(Continued on page 2)



Smoke bombs add to the illusion of disaster.

themselves into whatever role they had been assigned. For the trainees it was a dress rehearsal to test their expertise in a situation that might some day be very real for them.

Although they had been informed that they would be required to give a practical demonstration of their knowledge that day,



In front of the building.

they did not know what form it would take. The students were in class at the Center when a patrolman entered and announced that there was a disaster at the Igloo area. This was the signal for the EMT trainees to go into action.

Their test was rigorous and when the smoke had cleared and the "victims" had been treated, all who had been involved in the drill were in accord that the trainees had come through as professionals.

The "injuries" they were called upon to treat were varied in nature and severity, and some took unusual turns. One victim who had minor lacerations of the face and



Ambulances at the ready.

—Photos by Walton

## Saving Energy Has Far-Reaching Effects

Conserving energy means reducing the amount of fuel and electricity which your building and the Laboratory uses every month. Reducing fuel and electrical consumption saves money. Cost savings made now will be increasingly greater in the future as raw fuel and electricity prices continue to rise.

Fuel and electricity consumption cost savings are important, but by no means the only reasons for you to conserve energy:

- Energy Conservation can extend the useful life of existing equipment and eliminate the need for early replacement costs.
- Energy Conservation can increase the reserve capacity of the existing central plant system and meet future building extensions without installing extra boilers, chillers or transformers.
- Energy Conservation reduces the likelihood of shutdown or curtailment of operations due to fuel or power shortages, inevitable if demand continues to outstrip supply.
- Energy Conservation reduces airborne pollution resulting from combustion of oil, gas, or coal and may save installation costs of pollution control equipment.
- Energy Conservation means reduction of waste permitting fuel economy without reduction of health and comfort standards, or curtailment of Brookhaven's research mission and services.

In addition to the immediate advantages of Energy Conservation for the Laboratory and its employees, there are advantages to the nation as a whole.

- Energy Conservation conserves natural resources.
- Energy Conservation can enhance economic opportunity where materials and labor are required to improve building thermal characteristics.
- Energy Conservation reduces the need for oil imports and the dependency upon external sources for the internal economic well-being and security of this country.
- Energy Conservation combats inflation.

## Arrivals & Departures

### Arrivals

Carol A. Beckner ..... Tech. Info.  
 James J. Downing ..... Plant Engrg.  
 Colin Durston ..... Applied Science  
 Michael P. Hope ..... Safety & Env. Prot.  
 Jean A. Koroleski ..... Physics  
 David P. Millener ..... Physics  
 Leonard M. Naphtali ..... Applied Science  
 John J. Pastore ..... Plant Engrg.  
 Lori M. Poquette ..... Plant Engrg.

### Departures

Lawrence C. Andrews ..... Chemistry  
 William J. Bouchard ..... Central Shops  
 Frank R. Drysdale ..... Applied Science  
 Yan Pong Yu ..... Physics

## Cast Call

The Theatre Group will be presenting G.B. Shaw's "The Devil's Disciple" as a gala bicentennial production. Tryouts will begin on March 8 at 5:30 p.m. under the direction of Bill Love. All members are urged to participate in this special effort.

There are parts for 10 men and 4 women. All employees are welcome - 5:30 p.m. to 7:30 p.m., March 8-12.

## Reports Available

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

BNL-50486 ..... \$4.50  
 ISABELLE as a Muon Storage Facility. January 12, 1975.  
 J.W. Humphrey  
 BNL-50487 ..... \$4.50  
 ISA "Split Pole" Injection Magnet. August 1975.  
 G. Parzen and A. van Steenberg

## Washington Visitors



Vitalij Garber (center), Technical Assistant to Assistant Administrator for Field Operations, ERDA, is briefed on the superconducting magnet by Laboratory Director George Vineyard (left) and Ronald R. Rau, Associate Director.

## Improve Your Pitch

As every true baseball fan knows, a knuckleball is a pitch that changes direction unpredictably as it approaches the batter. The pitcher holds the ball with his fingernails or the first joints of his fingers, so that when he delivers the ball it spins much less than it would if he were holding it as he would normally. Robert G. Watts and Eric Sawyer of Tulane University have investigated the dynamics of the knuckleball by mounting a baseball in a wind tunnel in such a way that the forces acting on it in the airstream can be measured. First of all, they confirm that the knuckleball is capable of changing direction as it approaches the batter; the forces on a slowly spinning ball are sufficient to make it veer more than a foot in the distance between the pitcher and the batter. Writing in *The American Journal of Physics*, they say that a knuckleball veers because the seams on the slowly rotating ball "form a roughness pattern that is nonsymmetric," so that the flow of air past the ball is uneven. "This will naturally cause a nonsymmetric lateral force distribution and result in a net force in one direction or another."

Some pitchers think a knuckleball should be thrown so that it does not spin at all. They are wrong, according to Watts and Sawyer, who found that when the ball is not spinning, it is not subject to the varying lateral force that acts on it when it is spinning slowly. It is this varying force that makes the flight of the knuckleball so unpredictable.

The ball should veer most, write Watts and Sawyer, when it is thrown so that it makes about a quarter of a revolution on its way to the plate. It should not matter much how fast the ball is thrown; since "the magnitude of the lateral force increases approximately as the square of the velocity," the total lateral deflection "is independent of the speed of the pitch."

—reprinted from the *Scientific American*

## Theatre Group Meeting

The Theatre Group will meet at 8 p.m. on Thursday, March 18 in the Exhibit Hall/Stage II.

There will be a report on the last production and on the upcoming one. The program will be readings from *Comedy of Errors* by William Shakespeare presented by Denise Dew-Hughes.

## Nuclear Impact Meeting

A Health Physics Conference on Environmental Nuclear Impact, sponsored by the Midwest Chapter of the Health Physics Society, will be held in Nordic Hills, Itasca, Illinois on April 8-9. BNL staffers Vance L. Sailor (DAS) and Andrew Hull (SEP) will be among the featured speakers. Hull, who is also a member of the program committee, may be contacted for further information.

## Reminder

A Laboratory car leaves Bldg. 460 promptly at 3:45 p.m., Monday through Friday, to take passengers to Yaphank for the train to New York City. To secure a reservation, please call extension 2345 in advance.

## Setlow

(Cont'd)

pile." One of her offspring, "the wordy one," saw her mending and said, "I see you are going to fulfill the proper functions of motherhood, and they are, first, to mend our pants, and second to be nice to people." She was chastened.

But throughout it all, the children managed and were independent, and what gratifies her most, they didn't seem to resent it. They seemed to understand that mother would go to pieces if they didn't help, and they did more than they had to. Every couple of months a little ceremony would be enacted. When the Setlows arrived home from the lab, they were escorted to the living room and their slippers brought. They were given a cocktail containing alcohol and "Gods knows what else," some strange hors d'oeuvres and a meal which the children had concocted. Moments like these kept her going.

The children got used to her working and took their responsibilities to heart when she wasn't around. In fact, she says, "they were more likely to do something horrible when I was there."

She laughs when asked if she has any philosophy of child rearing. "I didn't bring them up, they brought me up," she says.

Outside of work the Setlows were careful to do things as a family. All vacations were of the camping and hiking variety with the whole family in tow. Another family enterprise developed later.

Every summer for the last ten years, the Setlows, Jane and Dick and at least one of the now grown children, have spent two weeks of their vacation at a camp for the adult handicapped near Camp David in Maryland. There, they forget about themselves and their own work and, as part of the staff, become "totally absorbed" in talking to, playing with, and caring for handicapped people ranging in age from 18 to 70. This activity grew out of the oldest child having a summer job during high school at the camp, becoming very skilled in this work by the end of college, and introducing the rest of the family to it.

Last week, Jane Setlow was in Seattle for a meeting of the Biophysical Society of which she has just been elected president. She is looking forward to this new experience. The society, which is mostly male dominated, has never had a woman president before.

From Seattle she journeyed to Pakistan for a two-week visit in the lab of a former collaborator of hers when she was at Oak Ridge. This is her second visit to Lyallpur. She has an advantage in seeing both sides of life in that city. As a scientist she participates in the mostly male scientific meetings. As a woman, she is invited to the women's quarters where men are not allowed. In Lyallpur, she says, there is no tradition for wealthy women to participate in the affairs of the community. In this city there is a tremendous mosquito problem arising out of open sewers and no mosquito control. She asked the women why they tolerated this, and they said the men would not listen to them anyway. Setlow slyly suggested that if they organized and *all acted together*, the men would listen to them. They hadn't thought of that. So far, Jane Setlow has not been declared *persona non grata* in that area.

Throughout their many years together, she and her husband have collaborated not only at home but also in their research. They collaborated most during their 14 years at Oak Ridge, but their scientific interests diverge now.

Although her title at the Lab is Senior Geneticist, she is really a molecular biologist, she says, and right now her principal research is in attempting to understand how microorganisms recombine their DNA.

In their off hours, the Setlows go to a lot of concerts, check out a lot of books at the library and grow all their vegetables in their garden in Shoreham. They have no TV. They had one once but gave it away. "You get trapped in front of that damned machine and keep watching it even though there's nothing good on it," says the forthright Mrs. Setlow.

It hasn't been easy managing a career and motherhood, and she thinks she probably would have been a better scientist if the energy had not gone into having children. But she wanted them, and the family seems to have come through her career agonies nicely.

Each is independent and yet able to cooperate with others, and everybody learned to cope.



Others in the ERDA party visiting the ISABELLE Magnet group on March 1 were (from left) William Rueb, Assistant to the Deputy Administrator; Laboratory Associate Director Vincent O'Leary; Accelerator Department Chairman Mark Barton; and David R. Israel, Technical Assistant to the Administrator.

## French Club Presents "Conference Musicale"

The BNL French Club will present Daniele Arpajou, pianist, in a "Conference Musicale" on Debussy, Fauré and Messiaen on Monday, March 8, at 8:00 p.m. in Berkner Hall.

This fine and sensitive young French artist is the laureate of several international prizes and has been acclaimed throughout Europe, North Africa, the U.S.A. and West Indies-French Antilles.

Donation \$2.00 for non-members. Refreshments will be served after the program.

## Cafeteria Menu Week Ending March 12, 1976

<b>Monday, March 8</b>	
Corn Chowder	
Beef Liver and 1 veg.	1.05
Scrambled Eggs, Sausages & Fr. Fr.	1.05
<b>Tuesday, March 9</b>	
Beef Noodle Soup	
Knackwurst & Sauerkraut	1.05
Sauerbraten & Potato Pancake	1.25
<b>Wednesday, March 10</b>	
Cream of Potato Soup	
Beef Chop Suey on Rice	1.05
<b>Special</b>	
Davy Jones Fish Fry	
\$1.25 plus tax	
<b>Thursday, March 11</b>	
Chicken Vegetable Soup	
Cheese Ravioli w/1 veg.	1.00
Roast Chicken w/Stuffing & 1 veg.	1.10
<b>Friday, March 12</b>	
Fish Chowder	
Spaghetti w/Clam Sauce	1.00
Breaded Pork Chops & 1 veg.	1.25

**BROOKHAVEN BULLETIN**

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**Rambling Around**

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

Many of you didn't get your *Bulletin* last week until late Friday. Apparently hundreds of *Bulletins* were inadvertently thrown in the garbage.

This is the scenario. Cartons of *Bulletins* have just been left on the platform behind the mailroom as usual. A few seconds later up drives the garbage truck to pick up the mailroom leavings which are usually left at that spot. The driver sees the cartons, heaves them onto the truck and speeds off to his next stop. The error is discovered and frantic calls go out from the mailroom to "stop that truck." The truck is dumped and the Laboratory newspapers retrieved, only slightly the worse for wear, and delivered to the grateful populace.

Of course, this office has had to hear its quota of smart aleck remarks from those who see this incident as a form of reader comment. However, we are ignoring these little asides.

After you have read the *Bulletin*, there are, of course, many uses for it. Here are a few: wrapping fish, making paper airplanes, table mats for lunch at your desk, swatting flies, covering holes in the walls, and inner soles for your shoes.

**BERA Board Officers**

A special meeting of the BERA Executive Board was held on March 2 for the purpose of electing Board officers. The outcome of the election was as follows:

- Kenneth Batchelor - President
- Audrey Blake - Vice-President
- Helen Keeley - Corresponding Sect'y

The appointment of Lynn Kalbach as Recording Secretary (non-voting member) has been extended for Fiscal Year 1976-77.

Richard Chester will continue his appointment as Association Treasurer.

**Bowling News**

Cathy Van Noy

**Pink League**

R. Rosati was the star of the evening with a 204-251 gross. The "Pinsplitters" are still leading the league with a 14-0 and the "Spares" in second. High games for the evening were C. Van Noy 179-161-184 for a 524 series. M. Stoeckel 168, H. Keeley 161, P. Oster 155 and R. Flack 154. R. Rosati won the pot with a 251 gross.

**Green League**

The "Phoubars" still maintained a slim lead after losing eleven points. The "Super Cools" moved into third by taking eleven. The "Charlie Browns" took eight and still plugging along. Phil Borzi lead the barrage with a 201-222-598 scratch and 721 gross. 200 games were F. Stahman 234, T. Iarocci 211 and F. Green 203.

**Red League**

The league is very tight in the second half with the eighth place team only 13 points out of first and plenty of time left. A good night for E. Carter with a 236 scratch which gives him the second high gross of 270. 200 games were J. Scesny 213-202, H. Frei 213, R. Adams 211, J. Ferrero 205-204 and E. Meier 205.

**Purple and White League**

The "Alley Oop" stalled the "Sea Gulls" and are only two points behind. The "Flounders" still have a good chance of moving into first as they are only five points out. High games were Ben Belligan 204, Jim Petro 202, Ken Asselta 199-562 and Betty Roche 166-474.

**Learning To Cope With An Emergency**



In the field.



In the boiler room where the simulated explosion took place.

**Emergency Test**

(Cont'd)

Mather Hospital for the firemen to rotate as observers on a regular basis in the emergency room and coronary care unit of that hospital.

The 35 students, including 14 Brookhaven firefighters and individuals who belong to local community volunteer ambulance corps, have completed about 100 hours in the training program, which is administered by Suffolk County for the State of New York. Both they and Skelton are grateful for the assistance given by Laboratory personnel in providing people and facilities for the demonstration.

Graduation ceremonies will be held on March 9. If they have successfully completed the practical test and extensive written examinations, the trainees will become full-fledged Emergency Medical Technicians.

**Answers To What Did He Say? (February 27)**

1. A bird in the hand is worth two in the bush.
2. Candy is dandy, but liquor is quicker.
3. Little pitchers have big ears.
4. A watched pot never boils.
5. All cats are black in the dark.
6. Early to bed and early to rise, makes a man happy, healthy and wise.

From what we've heard, readers enjoyed the puzzlers. We hope you will dream up some of your own and send them to the *Bulletin* for publication in subsequent issues.

**Official & Special Events**

- Tuesday, March 16**  
Northeast Energy Perspective Conference  
Berkner Hall - Rooms A, B, & C  
(Feb. 16-17)
- Wednesday, March 17**  
Navy Meeting

**Slo-Break Basketball**

Dr. K

In the first game of the double-header on February 19, the Browns exterminated the Condors 83-57. The awesome potential of the Brown forward wall was illustrated by the fact that the Moose, L-cubed and the Fox were all in double figures. Pete Stillman played an excellent game and was also in double figures. For the Condors Mike (the Spike) Dagg scored 24 points. Richard Ehrenkauter came off the bench and played excellent defense in a vain effort attempting to stop the surging Brown attack.

Browns (83)		Condors (57)	
Player	Pts.	Player	Pts.
Moose	36	Dr. K	10
Lawrence	16	Dagg	24
Smith	13	Thomas	3
Heotis	4	Vaughn	10
Schuman	0	Brown	4
Stillman	14	Ehrenkauter	4

The second game of this double-header was crucial to the standings for it pitted the first place Spuds against the second place and hungry Persuaders. The game at first appeared to be a runaway with the Spuds obtaining a commanding lead in the first half 34-23. However, the Persuaders battled back to win a squeaker 68-63. L. Dunmore led the Persuaders with 26 points. Wayne Smith and Tom Jesaitis each contributed 14 more. Bob Doty and Jeff Gaffney had 25 and 24 points, respectively. Ben Rose contributed 10 more points to the Spuds scoring.

Spuds (63)		Persuaders (68)	
Player	Pts.	Player	Pts.
Doty	25	Donaldson	5
Gaffney	24	Johnson	9
Cassella	2	Jesaitis	14
Henry	0	Dunmore	26
Rose	10	Smith	14
Kowalski	2	Baltz	0

In the first game of the February 27 double-header the Browns were defeated by the Persuaders 60 to 49. The Moose, injured hoof and all, led the Browns with 23 points. The Persuaders had well balanced scoring led by Greg Donaldson with 20 points and Wayne Smith with 12 points.

Browns (49)		Persuaders (60)	
Player	Pts.	Player	Pts.
Moose	23	Smith, W.	12
Heotis	2	Johnson	8
Smith, G.	4	Jesaitis	8
Rowley	9	Donaldson	20
Schuman	2	James	5
Stillman	4	Garrison	7
Pittman	5	Lynch	0
		Lamb	0

In the second game of this double-header the Spuds soundly defeated the Condors 76 to 67. Jeff Gaffney led the scoring with 32 points. Bob Doty and Dennis Nordstrom got 14 and 19 points, respectively. Mac Thomas led the Condors with 19 points. Mike Dagg and Jim Vaughn contributed 14 and 15 points, respectively.

Condors (67)		Spuds (76)	
Player	Pts.	Player	Pts.
Thomas	19	Doty	14
Brown	7	Nordstrom	19
Vaughn	15	Gaffney	32
Dagg	14	Rose	7
Dr. K	10	Kowalski	0
S. Glen	2	Henry	0
Ehrenkauter	0	Lopez	2
		Cassella	2

**Selected Reading**

- Science 191, January 9, 1976**  
The nuclear debate: Clashes in Congress and California. N. Wade. 47-50
- Science 191, January 16, 1976**  
No New Year's gift for science. D. Shapley. 166
- Science 191, January 23, 1976**  
NSF: Trying to cope with congressional pressure for public participation. B. J. Culliton. 274+
- Science 191, February 27, 1976**  
National Science Foundation: Criticism from Conlan, GAO. J. Walsh. 830-2
- N.Y. Times Mag. February 15, 1976**  
When the computer procreates. J. Bernstein. 9+
- The Super Bowl of birding. P. Wood. 30-3

**Volleyball**

Joe Mead

**Men's League Standings:**

	Won	Lost
Spikers	11	1
Cool Tools	8	4
Atom Spikers	7	5
Busters	6	6
Circuits	3	9
Easy Aces	1	11

**Mixed League Standings:**

	Won	Lost
Trolls	28	5
Terabits	27	6
Nuts & Bolts	19	14
Setups	18	15
Diamonds	17	16
Spikers	10	23
Medicine Ballers	8	25
Highballs	5	28

## Classified Advertisements

### Placement Notices

Each week the Personnel Office 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 through the Personnel Office. 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, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

42. MATERIAL HANDLERS - Application deadline: March 17, 1976. Supply & Materiel Division.

43. MESSENGER - Application deadline: March 16, 1976. Staff Services Division.

44. CUSTODIANS - Plant Engineering Division.

45. TECHNICIAN - Quick Copy Service Center. Possible shift assignments. Photography & Graphic Arts Division.

46. TECHNICIAN - AAS Degree or equivalent in electronics and approximately two years' experience in digital electronics. Applied Mathematics Department.

47. CHEMISTRY ASSOCIATE - BS or equivalent in chemistry and experience in inorganic analytical techniques to include a knowledge of radio-tracer methodology and counting techniques. Assignment involves supervision of some technical support personnel and the development of analytical procedures and data analysis. Department of Applied Science.

48. SCIENCE ASSOCIATE - BS or equivalent in mechanical engineering or materials science. Assignment involves development and implementation of procedures to measure properties of solidified radioactive wastes. Demonstrated ability in data analysis and report writing necessary with knowledge of heat transfer and stress analysis desirable. Department of Applied Science.

49. HEAVY EQUIPMENT MECHANIC-OPERATOR - Under minimum supervision maintains, operates, and repairs all material handling, earth moving, road and ground maintenance, and similar equipment, including complete repair and maintenance of gasoline and diesel engines and the use of required machine tools. Application deadline: March 17, 1976. Plant Engineering Division.

50. ELECTRICIAN A - Under minimum supervision lays out, constructs, installs, maintains, repairs and operates (in accordance with the national electrical codes, or as otherwise directed) electrical systems, equipment, controls and related devices. May be required to perform similar duties on other than maintenance division equipment and facilities. Application deadline: March 17, 1976. Plant Engineering Division.

51. LABORER - Application deadline: March 15, 1976. Plant Engineering Division.

52. BUILDING & GROUNDS UTILITY WORKER - Application deadline: March 15, 1976. Plant Engineering Division.

### Autos & Auto Supplies

CHROME - Set of side exterior pipes, 6' long, 3 months old, fits all cars & trucks. \$50. Steve, Ext. 4308.

68 FORD - Country squire station wagon, new tires, brakes & shocks, a/c, radio, ps/pb. \$1000. 878-1895.

66 VW - Squareback, new ball joints, needs carb work, some body rot. \$250. Ext. 2957, 744-3312.

COMPLETE NOSE - For 64 Chevelle or El Camino, very good cond. \$75. George, 924-3807 after 6.

TIRES - (4) Dunlop, B78-14, w/w, 4-ply rating, 6 mos old, 4000 miles. \$17.50 each. 878-0123 after 5.

74 PLYMOUTH FURY III - 4 dr, h.t., p/s, p/b, a.c., am/fm, and more, must sell. Reasonable offer. Mike, 751-2149.

71 CHEVY - 1/2 ton pick-up, auto, 6 cyl, radio, good cond. \$1800. Ray, Ext. 2012.

SNOW PLOW SET-UP - For Chevy 4WD, no blade, \$150; 327 truck motor, needs work, \$75. 549-9103.

66 DODGE - 1/2 ton pick-up, 6 cyl, no rust, in very good cond. \$650. John, Ext. 4666, 324-4788.

SNOW TIRES - (2) G78-15 Sears Dynaglass, w/w, almost new, mounted & balanced for Chevy. \$50. Ext. 4285.

WHEELS - (4) 13" Chevy Nova, \$10; (1) wheel for 15" Chevy, \$4. Dunning, Ext. 4285.

VW PARTS - Tires, battery, engine, etc. C. Hobson, Ext. 3082, 727-1324 after 5:30.

WHEEL COVERS - (4) 14", \$10. Dave, Ext. 3427.

RECAP TIRES - (4) mounted, essentially new, 855-14, 2 snows, 2 reg tread. \$25/pair. Dave, Ext. 3427.

60 MG - Magette Mk II, not neat looking but good running, good tires, recent tune-up, \$250. M. Sautter, 924-3338.

WHEELS - 15" Ford. 475-8766.

RALLY II RIMS - (4) fit Chevy or Pontiac, factory price \$180. \$75. Sandra, Ext. 4207, 727-5158.

73 HONDA 350 - Road bike, elec start, excel cond. \$750. Al, 653-4632.

64 JEEP WAGONEER - Rebuilt trans, 3 spd on floor, 4-wheel drive, body & engine in good cond. \$900. Ext. 6508.

74 JAWA - Road & trail motorcycle, 90 cc, low mi, clean. \$275. J. Guthy, 929-8287.

68 CHRYSLER WAGON - P/b, ps, a/c, high mileage. \$400. 732-3681, days.

76 BUICK - Century custom, white & red interior, radial tires, mags, am/fm stereo tape deck, a/c, Hearst hatch sun roof. \$5900. 981-5993 after 6.

72 FORD PICK-UP - 1/2 ton, standard, V8, snows, rails, tonneau cover, stereo tape, 6 1/2", excel cond. \$1995. Ext. 4068, 298-5092.

72 PINTO - 2 dr, standard shift. \$800. 585-2205 after 6.

66 FORD MUSTANG - 6 cyl, needs transmission work. \$150. 473-8637 after 6.

73 SUPER BEETLE - Red, am radio, undercoating, vent-shades, bumper guards, 2 snow-tires, 21,000 mi. \$2195. 473-3176.

74 FORD PINTO - 2300 cc, radials, decor pkg. Bill, Ext. 4662.

74 MOTORCYCLE - 125 cc Zundapp Enduro, excel cond, Koni shocks, 6" RWT, new tire, chain & sprocket. \$500. 878-4513 after 6.

TIRES - Recaps & used, most sizes, exten. rims, starts, alternators, batteries. Ken, 289-8212 eves.

65 TRIUMPH TR4A - Good cond & very good transportation, 21 mpg around town. \$625. Don, Ext. 4551, 281-6160.

71 MUSTANG - V8, automatic, p/s, p/b, am/fm radio, 55,000 mi, excel cond. Carol, Ext. 4398.

SNOW TIRES - (2) E78-14, good cond. \$5 each. Frank, Ext. 4581.

73 PINTO - Station wagon, 32,000 mi, 26 mpg, \$1925. Jim Nekerman, Ext. 4810, 734-6168.

64 INTERNATIONAL TRUCK - 1 1/2 ton, 12' body, full w/rool up door, clean. \$600. Ext. 2204 eves, 281-7159 days.

### Boats & Marine Supplies

BOAT - Deep V hull, 33 hp, Evinrude, tilt trailer, extras. Sale or Trade for travel trailer, 15' & up. 567-2042.

STARCRAFT - American 16', 65 hp Evinrude, full canvas, Coastguard equipped, trailer. \$2100. 929-6679.

23' SPORTFISHERMAN - Pembroke, flying bridge, d/f, canvas, 6 cyl, extras, good cond. \$1650. Laird, Ext. 4068, 298-5092.

33' CHRIS CRAFT - Sedan, auto-pilot, f/b, enc Bimini d/f, new radio, tape deck, twin f/w/palmers, GEM, constavolt, loaded & clean. 475-7241.

24' SEA SKIFF - Zobel, hardtop, 125 hp, Chrysler crown, ideal fishing boat. \$500. Hank, 363-6037.

### Miscellaneous

TAPE DECK - TEAC-2340A, 4-channel, simul-sync, w/ separate sound-on-sound echo unit, 5 months old, hardly used. \$550. Kevin, 732-8216.

BEDROOM SET - Walnut formica, like new; air conditioner, used 1 yr; dining rm table & 6 chairs, china cabinet. 289-0243.

POLAROID CAMERA - 103 automatic, color pack or b/w, portrait lab, flashgun, leather carrying case. \$20. Ext. 4240.

WATER TANK - Glass lined, 42 gal, new. \$70. George, Ext. 4304, 698-6051.

ARIENS TRACK TEAM - 6 hp tractor, self-propelled, w/lawn mower, 2 stage snow blower & vacuum cleaner, extra parts. \$400. 744-3312.

GARDEN TRACTOR - 2 cyl w/4" snow plow, sickle bar, 10" plow, etc, very good cond. \$125. 286-0939.

REFRIGERATOR - Hotpoint, 15 cu.ft, approx 8 yrs old, good cond. \$55. Bob, Ext. 4551, 289-2159.

KITCHEN SET - Table & 4 chairs; refrigerator, 12 cu ft, self-defrost, perfect cond; washer, Norge 10-cycle, 18 lbs. 289-0243.

STOVE - 20" natural gas hook-up. \$25. Jack, 226-1171.

30" DOOR - Interior, pre-hung unit. \$25. Jack, 226-1171.

PIANO - Upright w/bench, good cond. 928-0348.

TURNTABLE & CARTRIDGE - Both slightly used, Dual 701, direct drive table, \$220; Shure V15 Type 3, \$40. Ext. 3828, 751-7250.

ENCYCLOPEDIA BRITANNICA - Complete set, index vol, several yearbooks, special wood cabinet, very good cond. \$75. Ext. 4285, 588-5228 after 5.

COMPONENT - New, 8-track tape, recorder, turntable & speakers. Paid \$350, asking \$250. 289-9009 after 5.

GIRL'S BEDROOM - Desk, double dresser w/mirror, bed & mattress. \$175. 289-9009 after 5.

BEDROOM SET - Bed w/new mattress, 2 night tables, triple dresser, chest. \$400. 289-9009 after 5.

LEATHER SET - Couch & swivel chair. \$150. 289-9009 after 5.

DINETTE SET - 4 swivel chairs, slate 66" round table, chip & burn resistant. Paid \$600, will sell for \$250. 289-9009 after 5.

COUCH - Crushed velvet, pulls out to queen size bed. Paid \$700, will sell for \$300. 289-9009 after 5.

AIR CONDITIONER - 8000 BTU, new. \$135. 289-9009 after 5.

BABY ITEMS - Jump chair, infant seat. 286-3964.

SILVER TRAY SET - Coffee, tea, milk & cream pitchers, 14"x23" tray, \$25; silver tray w/glass insert, 14"x19", \$15. Ann, 286-2280.

REFRIGERATOR - \$10; wooden storm door w/glass & screen, 81"x37", \$15. Barbara, 286-8633.

LADIES SHOES - 1 pair, black size 7 1/2 W, never worn. Paid \$20, will sell for \$12. Cora, Ext. 3743.

CRIB - Walnut, w/useable mattress, \$20; baby dressing table, walnut-wicker, 5 drawers, tray & laundry bag, \$10. Shelly, 732-0974.

ELECTRIC RANGE - GE, 2 large elements, 2 small elements, clean, works well. \$65. 475-8971.

BEDROOM SET - 9-piece Spanish-Med; kitchen appliances; colonial dining rm set, table w/2 leaves, 4 chairs, hutch; chandelier, almost like new. 281-1599.

ANTIQUES - Spinning wheel; original 19th century desk. Best offer. 281-1599.

EARRINGS - Hand-crafted sterling silver, never worn, for pierced ears but can be converted, price negotiable. Laurie, 744-2549.

STEREO - Sears am/fm compact component system, BSR turntable, excel cond, \$100 when new, will sell for \$30; Sharpe MK II stereo headphones, like new, \$25. Laurie Adler, 744-2549.

TV - 21" b/w Magnavox floor model, works. \$25. J. Guthy, Ext. 2902, 929-8287.

ROLLER SKATES - Ladies Chicago, leather shoe, ball bearing wheels, size 8, w/metal carrying case, like new. \$25. Steve, Ext. 3469.

FURNITURE - Corner sectional, \$250; misc. upholstered chairs, \$40 ea. Ext. 3121, 744-5261 after 6:30.

GARAGE SALE - All household items, air conditioner, furniture. 369-2748.

BEDROOM SET - Solid mahogany, twin beds, 7 pieces, \$75; (2) 5000 BTU air conditioners, \$50 ea. 878-1345.

CRIB - All wood, good cond. \$10. Steve, Ext. 3822, 929-6527.

HUMIDIFIER - 8 months old. \$30. Frank, Ext. 2957.

CHINESE WOK - Cover, utensils, cook book, chop sticks, used once. \$28.50 at A&S, will sell for \$17. Ann, Ext. 3143.

BICYCLE - 20" boys, green, good cond. \$20. Frank, Ext. 4839.

DINING ROOM TABLE - Large, old. \$35. 744-2493.

KITCHEN SET - Metal top table & 4 chairs. 744-2493.

BEDROOM SET - 6-piece mahogany, bed, 2 night tables, dresser, mirror, chest. \$300 or best offer. 744-2493.

DINING TABLE - Teak, excel quality, design & cond. 35"x58", extending to 92". Rowley, 286-0975.

GAS RANGE - Coppertone, 4 burners, oven & broiler, 20" wide, LILCO or bottled gas, like new cond. \$45. Dick, Ext. 3860, 698-5298.

BASS GUITAR - Double pick-up, sunburst finish, separate volume & tone controls, w/extra accessories. \$55. Ernie, Ext. 4255.

ROTARY ANTENNA - Never used, \$20. 475-5903.

BICYCLE - Women's Schwinn Varsity, 10 spd, very good cond. \$125. Evarina, Ext. 3080.

DINING ROOM SET - Table w/leaf, opens to 33"x60", wrought iron legs, 4 chairs, buffet 45"x16", formica inside & out, black oak pattern. \$150. 727-7515.

REFRIGERATOR - 12 cu ft, \$50; kitchen double sink & 5' counter top, all fixtures, \$40; bathroom sink & fixtures. \$25. 727-7515.

OSCILLOSCOPE - EICO 460, Heathkit test chassis model EF-2 & all manuals, all brand new in cartons. \$125. D. Vail, Ext. 2046.

WASHING MACHINE - GE, good working cond, 2 cycles, 3 water levels, 2 speeds. \$50. 286-3742, eves, weekends.

AMERICAN FLAG - New, 100% cotton, 5'x9 1/2". \$15. Gus, Ext. 4810.

TV - Color, 19" Penncrest (Panasonic), table model, working cond. \$100. D. Vail, Ext. 2046.

### 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

BOHEMIA - Hi-ranch, 4 bedrm, den, 2 car garage, 2 full baths, carpeting, dishwasher, s/s, good m/d or use as apartment, fenced pool area, 1/2 acre. Low 40's. Ext. 2311 or 589-6069 after 6.

RIDGE - 3 bedrm, 1 1/2 baths, townhouse, wooded location, air conditioning, w/w carpeting, 5 appliances, fenced patio, owner sacrifice. Low 30's. 924-3361.

SMITHTOWN - 3 plus bedrm, custom ranch, wooded 1/4 acre, 2 car garage, large screened porch, finished basement, 25 min to Lab. \$48,500. 265-1436.

CUTCHOGUE - 1 acre building lot, water view, beach rights, near school & shopping. Asking \$15,000. G. Laird Stubbings, Ext. 4068, 298-5092.

### 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).