BROOKHAVEN BULLETIN
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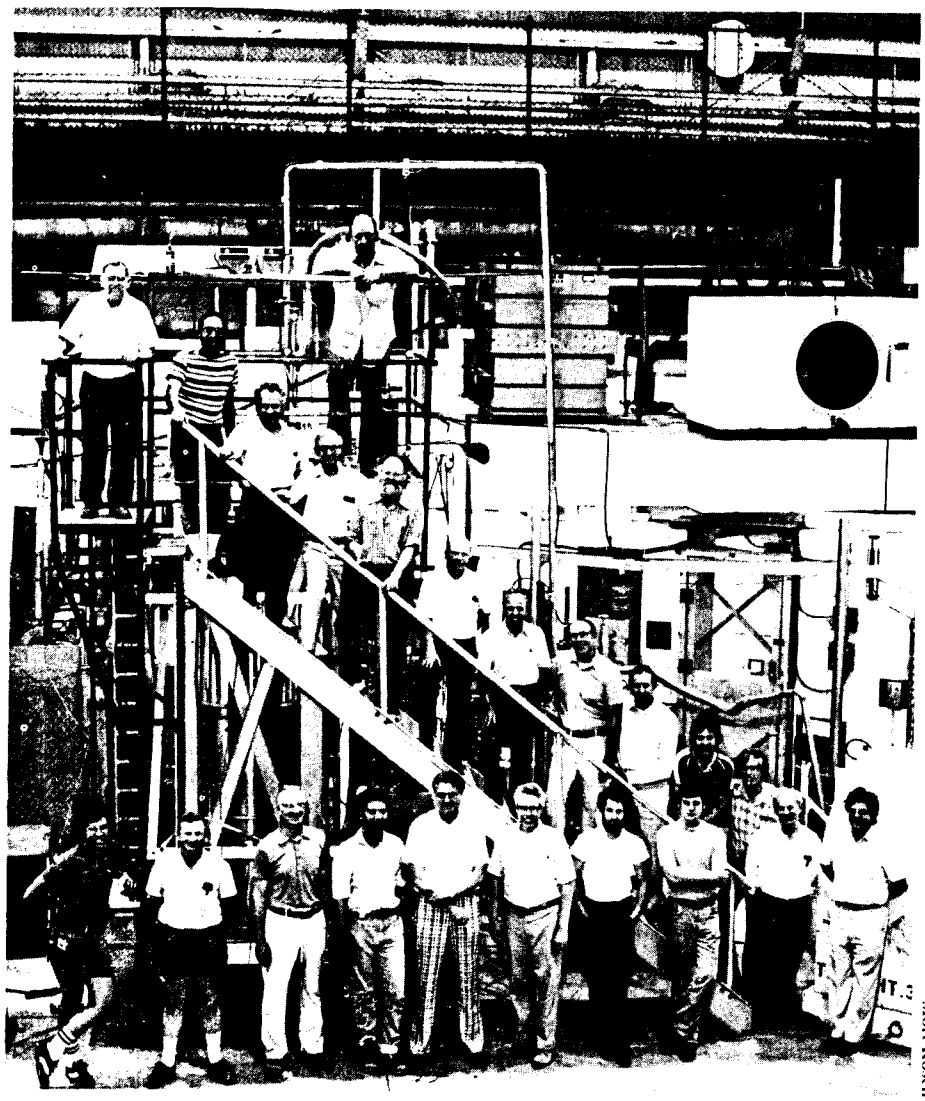
BROOKHAVEN NATIONAL LABORATORY



Mort Rosen

Some of the people responsible for the success of the newest "picture frame" magnet gather by the magnet test stand on the floor of the AGS experimental area: (front row, from left) Bob Kiss, Stephen Kochis, Albert Prodell, Philippe Tardieu, Richard Stoehr, John Jackson, Randy Abramowitz, Bob Heimerle, Nat Levinson, Derek Lowenstein; (on stairs, top to bottom) John Boruch, Jack Weisenbloom, Henry Jimenez, Joe Allinger, Gordon Danby, Werner Tramm, Lou Addessi, Robert Meier, Basil DeVito, Michael Iarocci, Alan Carroll; (top) Robert Barberich.

Magnet Passes First Test

In early June, employees in the Accelerator Department completed the first major step in the development of a new "picture frame" magnet when the five-foot long, superconducting dipole magnet trained to its maximum field of 6 Tesla in successive quenches.

"That's the value expected by the designers," said project manager Eric Forsyth, "and achieving it is an important accomplishment." Forsyth credits personnel from all AGS divisions with this success. Gordon Danby headed the design group. Construction, which began last February, was under the overall supervision of Joe Allinger.

The "picture frame" magnet gets its name from the way the superconducting windings are held in place by a rectangular structure that resembles the frame of a picture. Originally, it was designed to take particles from the AGS to the experimental areas, as part of a proton beam transport system. Two other similar superconducting magnets have been bending a beam by 8° on the AGS experimental floor since 1973. In addition, the present test series is being used to verify operating characteristics and design concepts so the magnet might be used as an alternative design for ISABELLE.

The June effort was the second test of the magnet in liquid helium. The first, in mid-May, revealed the need for extra bracing of the windings, so a quick modification was made at the Central Shops, under the direction of Henry Jimenez.

Having passed this important test, the magnet is now undergoing further changes to improve the coil bracing with the aim of reducing the number of quenches needed to reach full field. Construction of a second five-foot model has started and the design of a fifteen-foot long magnet is well along.

Hendrie: Four Years Later

Feeling "four years older and a little wiser," Joseph Hendrie returned to Brookhaven last week at the completion of his term as chairman of the Nuclear Regulatory Commission. In his farewell to the NRC staff, he said that "these past four years seem now to have passed quickly, although there were occasions when even the minutes seemed agonizingly long. To paraphase Mr. Dickens, it has been the best of times; it has been the worst of times."

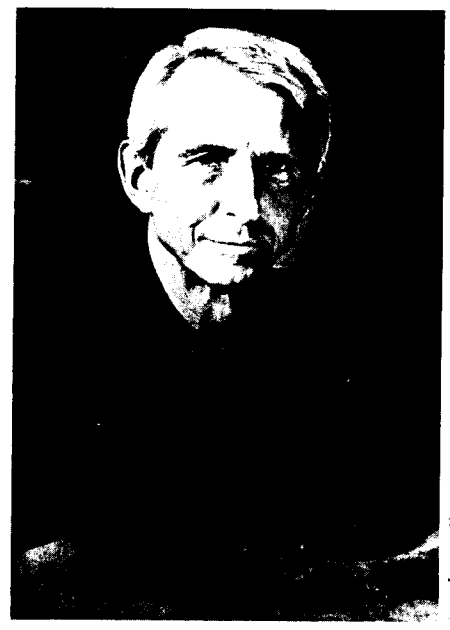
Highly experienced in reactor physics, design and safety analysis, Hendrie was chairman of BNL's Department of Applied Science when he was tapped by President Carter to head the NRC. He left for Washington in August 1977, fully aware of the political climate regarding nuclear energy and of the complexities of his particular assignment. But he could not anticipate the accident at Three Mile Island.

This was the "worst of times" for Hendrie. From the professional point of view, the accident was, of course, of deep concern to him, and the technical ramifications have been reported exhaustively. As to the personal stress — he considers that it went with the job.

In the chair of the NRC, Hendrie was at the center of the tumult and, thus, the subject of intense media coverage. When asked how he viewed the press, he said that he had no quarrel with responsible journalists. "This was a serious matter, and they had their job to do." he says. "But the view from outside was substantially different than from where I was sitting."

In Hendrie's opinion, media reporting of Three Mile Island ranged from good, straightforward work, to the flatly irresponsible. As an example of the latter, he cites the weekend when whole families took to the roads in flight from the Harrisburg area. "When someone at the NRC said, among other things, that obviously we were considering the possibility, and making contingency plans, just in case something happened at the reactor and there was a need for an evacuation, some local radio stations promptly went on the air and announced that the NRC saw the accident getting worse and was recommending evacuation. This created near panic in some quarters and was, in itself, a more serious hazard to public safety, at that time, than the reactor."

His off-the-cuff remark during the crisis that it was a case of "the blind leading the blind," was widely quoted. He explains: "It was contained in a transcript made from tape recordings of the discussions I was having with



Doug Humphrey

Joseph Hendrie

Dick Thornburgh, Governor of Pennsylvania, and the other Commissioners. The Governor and I understood each other's concerns and we worked well together. This remark was part of that set of discussions. What can I say? Everybody has his own style, and sometimes mine gets me in trouble. Actually, I thought the remark characterized the situation with some precision, but I have been formally apologizing to the sight-impaired ever since."

Asked what he considers the most important problem of nuclear energy, he says that public understanding and acceptance is the key. He believes that "solving the waste problem is a fundamental requirement for a continuing nuclear power industry, but I think it's quite clear that, technically, it can be solved. Again, the problem is primarily political and institutional. Everybody says, 'don't do it here.' But if the national needs of the country require it, then it will have to be done someplace."

About his whole experience, Hendrie says "it is satisfying to know that you have been on the front line of public service. I regard a tour of duty in Washington as an obligation to be fulfilled when it is offered to you, and as a special and temporary occupation. And, it is exciting."

For now, the excitement is over and Hendrie is decompressing. At Brookhaven, he will be Special Assistant to the Director, as energy advisor both to the Director's Office and to the Department of Nuclear Energy. As to why he returned to Brookhaven, he says partly for the same reason he came in 1955 — "for the engineering and the sailing," and partly because "it is home."

— Bernice Petersen

High Marks For BNL Classroom

If you've been thinking about taking one of the courses offered on site by Suffolk County Community College (SCCC), why not have a talk with Renee Flack at the Affirmative Action Office? As program coordinator, she can fill you in on all the technicalities. And as a student, she can evaluate the program firsthand.

Flack, who has taken two courses here every semester since she initiated the program in the spring of 1980, is one of a growing number of BNL employees taking advantage of it. That first semester, 122 participants enrolled in 129 courses; one year later, 131 were taking 142 classes.

Most of these students took advantage of the Lab's tuition refund program. To be eligible for a refund, a student must pass an approved course with a C or better. Bill Hempfling, Training & Development Administrator in Personnel, will be on hand throughout the upcoming three-week registration period - July 30 to August 18 - to counsel employees about the tuition refund program and to help them select the courses that can best aid their career development at BNL.

Who are these people who start

(Continued on page 2)

Doug Humphrey

(From left) Renee Flack, who coordinates the on-site SCCC program, and Bill Hempfling, who provides counseling to BNL employees, share ideas about the fall semester with Fran Ligon, Irene Ozols, Barbara Barrett, Neil Jackson, and Steve Chan. Registration begins July 30.

Keeping Company With Live Wires

The new meteorology tower, which has been named Ten, stands at 280 feet. Besides meteorologists who will have to go up periodically to check equipment, the only other regular climbers will be BNL linemen.

The Lab has five tower line persons — that's their official job title — who will be maintaining the lights. But changing light bulbs aloft is just a small part of the job for Jack Barry, Barney Brehm, Jack Cochrane, John Ericksen and Tom Northam. Most of their time is spent working with high voltage lines and associated equipment.

LILCO delivers electricity to the Lab at 69,000 volts. At two main substations on site, giant transformers drop the voltage to 13,800 and to 2,400 volts before electricity is distributed to buildings, where again the current is transformed down to more usable voltages of 120, 240 and 480. At one time, all of the Lab was wired with overhead lines, and a big requirement of the lineman was ability to work at heights. Now, most of the lines west of Railroad Avenue have gone underground for appearance and protection. So the linemen also work eight feet deep in manholes.

But no matter where they're working with electricity, safety is their first concern. "The basic rule is never put yourself in a grounded position," said John Cochrane. "Also, know the voltage you're working with and handle it properly." The men work with live wires not higher than 2,500 volts, but they take extra precautions by using thick leather gloves with heavy rubber liners, good up to 10,000 volts, and fiberglass sticks, rated up to 100,000 volts.

Barney Brehm, who started as an electrician 35 years ago, said he and the other linemen always think before they do anything. In all of his years working with electricity, he has never had a serious accident. Said Brehm, "I've only been hurt playing softball — broke an ankle and a rib doing that!" In fact, Jim Carroll, supervisor for the linemen, said the group has a clean record, and they work to keep it that way.

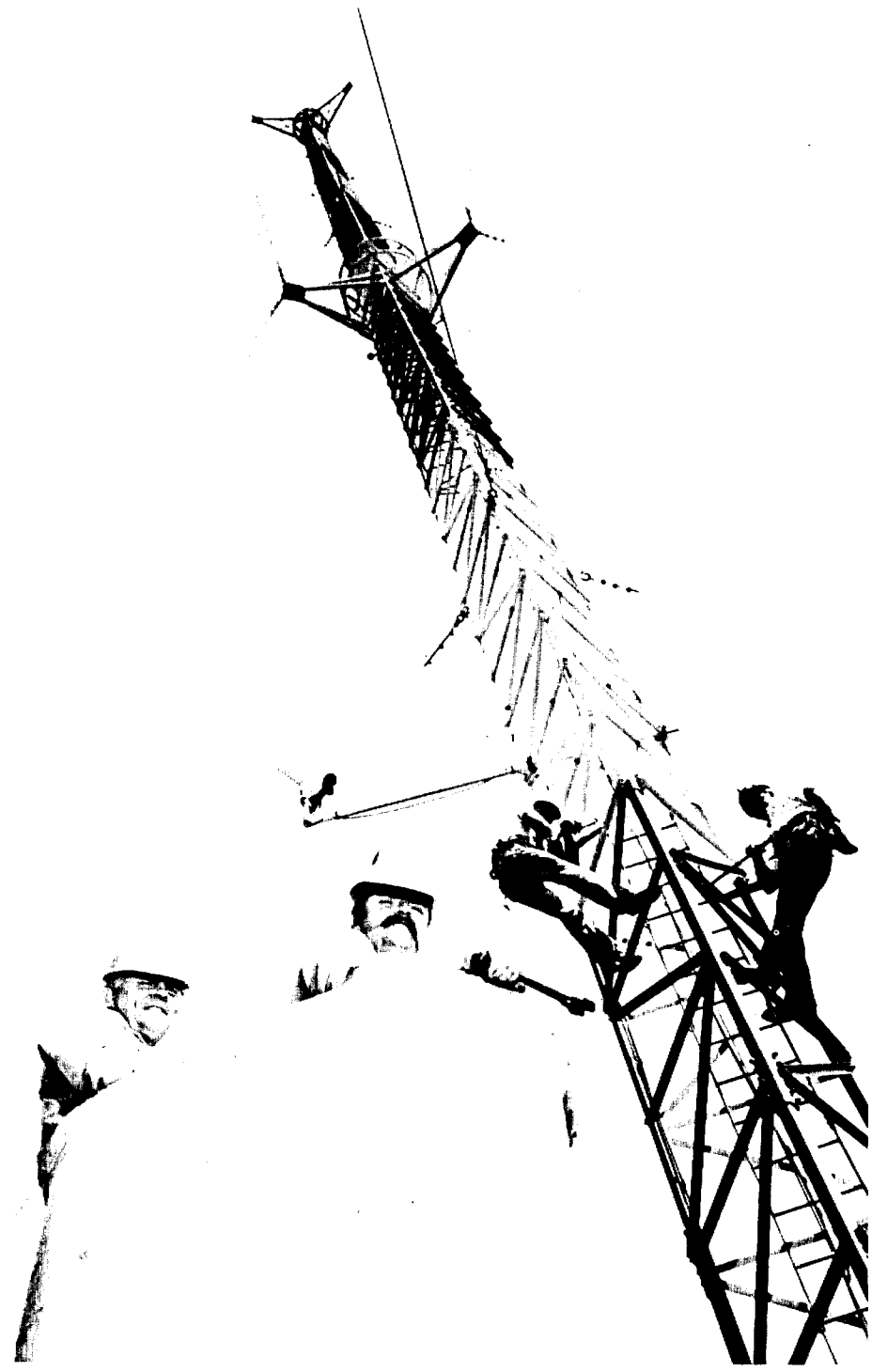
For safety, the linemen usually work in pairs. The exception is Jack Barry, who as the stationmaster, divides his time between the two substations. "I like working alone," said Barry, who keeps company with circuit breakers and volt meters. He has been stationmaster for about ten years and has become tuned in to the sound of electricity flowing through the substations. "I can hear when the AGS starts up. There's a definite change in pitch," he said.

While Barry spends most of his time at the substations, the other linemen are on the go around site. Jack Cochrane and Tom Northam generally handle all jobs that call for the bucket truck. That's everything up to 55 feet in the air. Northam says the bucket truck is a handy piece of equipment. "Not too long ago, we helped rescue an employee who was injured working on a rooftop," he said. "The ambulance people couldn't get up there, and the firefighters' ladder was somehow too long to get in between the buildings."

Cochrane and Northam also do less exciting but equally important jobs such as maintaining the wind sock in the helicopter field, stringing lights on the traditional holiday tree, helping the Biology Department with covers for their greenhouses, and maintaining all traffic lights on site and at both Lab entrances on William Floyd Parkway.

The traffic lights at the main gate regulate the bulk of vehicle business into and out of the Lab. Carroll said they used to be controlled by traffic pads, which were troublesome in severe winters. This past winter, the linemen installed what are called loop vehicle detectors. As Carroll explained, the metal of a vehicle passing over the loop induces an electrical current, which closes a switch that triggers a green light 40 second later. "It worked perfectly this winter," he said.

Unfortunately, high voltage lines aren't as reliable. John Ericksen has been a lineman for 20 years. Now the group's leadman, he said in his experience, something usually goes wrong in foul weather, two or three in the morning, and most often on a holiday or weekend. As Cochrane put it, "the underground blows up or the overhead falls down" at the most inconvenient times. The linemen are always on call for such emergencies, and they are well aware of the role they play in keeping the Lab supplied with electricity. — Mona S. Rowe



Doug Humphrey

High in the sky, linemen Jack Cochrane (left) and Jack Barry are hoisted up in the bucket truck, while Barney Brehm and John Ericksen are scaling the meteorology tower. Missing from the picture is lineman Tom Northam and the group's supervisor Jim Carroll.

Postal Note

On June 30, 1981, postal workers in Canada went on strike. The U.S. Postal Service has put an embargo on all Canadian mail until further notice. The mailroom has been holding Canadian mail since the embargo went into effect. It is requested that no further mail be posted to Canada until the embargo is lifted.

Equipment Demo

The features of the IBM Displaywriter Word Processing System will be demonstrated on Tuesday, July 21 in Room C of Berkner Hall, from 11 a.m. to 4 p.m.

BNL Classroom (Cont'd)

school when most of us are ending our workday? Some are fresh out of high school; others haven't sat in a classroom for decades. Some are seeking the high school equivalency diploma SCCC offers after completion of 24 credits; others have long-range plans for advanced degrees.

Neil Jackson's goal is an A.A. degree in Business Administration. A Specialist A with Photography & Graphic Arts, he needs only 27 more credits. He plans on taking three of these on site next semester. Jackson especially likes taking courses at the Lab. "It's very convenient," he said. "you're not always fighting traffic getting to campus, so you save on gas." Reflecting on the tuition fee of $30 a credit, he added, "The price is right too."

A scanner in Physics, Irene Ozols decided to get her electronics certificate after a temporary stint working in that field. She will take her second on-site course, digital electronics, this fall. Ozols, who graduated from high school in 1944, is taking only on-site courses for now because, "They make it much easier to maintain my family life. They save so much time and there's no traveling back and forth. I just leave work and walk to another building."

Steve Chan, DNE, holds a Ph.D. in Chemistry, but has been taking SCCC undergraduate courses on site to improve his English and increase his knowledge of our culture. Chan, who taught Chemistry in Singapore before coming to BNL three years ago, says the courses have helped a lot.

Barbara Barrett, a senior secretary in DNE's administrative office had been out of school for 23 years when she started in SCCC. She expects to receive her associate's degree in Business Administration next May, after she completes the four remaining courses that she has planned to take on site.

Barrett was able to plan ahead because of what she considers to be a major advantage of the program - the accessibility of the people who run it. She gives Flack and her assistant Fran Ligon, another program participant, high marks for being helpful to students, giving them plenty of notice about course changes and processing tuition refunds as soon as grades arrive. "We don't have to do anything," Barrett said, "except register and get a decent grade."

Flack, in turn, cites the helpfulness of others as one of the things she likes about the program. "All my classmates are on site. We can get together to study very easily."

She invites any employee who wants more information about the SCCC program or the schedule for the fall semester to contact her at Ext. 3316. Employees who require counseling should contact Hempfling at Ext. 2878.

— Anita Cohen

Arrivals & Departures

Arrivals

Edgar E. Gooch, III ..... Chemistry
Frederick T. Reinert .... Central Shops

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:

Anthony J. Campillo .. Energy & Env.
Eugene R. Fales ..... Supply & Materiel
Anne C. Kushnick ..... Accelerator
Peter W. Kushnick ..... Physics
Hannah Lane ..... Nuclear Energy
Julia M. Smith ..... Nuclear Energy
Maria Yanez ..... Energy & Env.
Michael D. Zentner ... Nuclear Energy

Benefit Records Mailed Next Week

The annual statement of each employee's present insurance and retirement benefits will be mailed next week to the home address of all regular full-time and eligible part-time employees.

The statement reflects each individual's various group insurance coverages (premiums, beneficiaries, disability benefits), and AUI and employee contributions (including current allocation) to the retirement plan.

The purpose of this statement is to provide employees and their families with a better understanding of their AUI benefits and to insure that their insurance coverages and beneficiaries are correct and up-to-date.

In order to reduce cost, the statements are being mailed at the third class bulk rate charge. Therefore, some employees may experience a delay in receiving their statements.

Nursery School

The Upton Nursery School is now accepting applications for enrollment in sessions beginning this coming September. The school offers morning classes for three and four year olds at the Recreation Building on site in the housing area.

Applications can be filled out on Wednesday, July 22, from 11:45 a.m. to 12:45 p.m. in the Cafeteria. During that hour, an officer of the board and a teacher will be present to answer questions about the school. Applications are also available through Karen Brunswig, 924-0030, and Ruth Fernow, 928-8465.

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Handling The Heat

It is time to advise employees, especially those working in high temperature areas, about the effects of excessive heat.

Adverse reactions to high temperatures basically involve inability of the body to dissipate excessive heat. As heat loss is very closely related to fluid balance in the body, the most important method of preventing heat-related problems is to maintain an adequate fluid intake. As much as 50% more fluid than the amount dictated by thirst may be needed, especially in very warm environments. The exact type of fluid does not matter, except that alcohol should be reduced or eliminated. Individuals with heart, kidney or liver disease who have been advised to restrict fluid intake, should consult their doctors. Also, certain medications may interfere with normal heat-dissipating mechanisms in the body, namely, some of the major tranquilizers and certain anti-spasmodic agents.

Many employees come to the Clinic in hot weather asking about salt tablets. It is now generally accepted that salt tablets may cause serious problems. Far less dangerous and just as effective is to salt food at meals in very hot weather (again, unless prohibited by one's physician on medical grounds).

In addition to using common sense when working in the heat, the importance of acclimatization — gradually breaking in to physical exertion in a hot environment — should be recognized. Individuals in good physical condition tolerate temperature extremes much better than those with poor cardiovascular conditioning.

Individuals exhibiting mild symptons, such as slight nausea or excessive thirst, should be removed from the heat and placed in a cool environment at once. If alert, they should be offered fluids. Those developing more severe symptoms such as weakness, dizziness, fainting, disorientation or cramps, should receive immediate medical attention.

—Laura Sbarra, M.D.

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on July 23, 1981, at 6 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 and the President's report.

Mountain Club

This is it! The Annual BNL Mountain Club Beach Party! We will meet tonight, July 17, anytime after 5 p.m. at Smith Point's picnic area. Everyone and anyone is invited. Bring your own food, drinks, beer, whatever you like. Call Anita Swoboda, Ext. 2968, for further information. In case of rain, the party will be held on July 31.

Swimming Pool

Monday through Thursday

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

Friday

11 a.m. to 1:30 p.m.	employees
1:30 p.m. to 3 p.m.	children's lessons
3:15 p.m. to 4:30 p.m.	children's pool
4:30 p.m. to 9:30 p.m.	specials employees/families/guests

Saturday and Sunday

1 p.m. to 6 p.m.	employees/families/guests

Tennis

The annual BNL tennis tournament beginning July 25 includes an event for women's doubles. But so far, not enough teams have signed up to make it a fair competition. The deadline for entering the tournament is today, Friday, July 17. So, all you female tennis players out there, grab a partner and sign up at the BERA Sales Office. The entry fee is $1.50 per person.

Kids In The Pool

Another summer of learning and fun for children of Lab employees began at the pool last week. Swimming lessons are given by certified Red Cross instructors. (Note: there are still six more weeks of scheduled lessons. If you haven't registered your child or children, it isn't too late to do so.)

In addition to the lessons, each Friday afternoon from 3:15 to 4:30, organized water games and contests are conducted by the swim instructors. Last week's special featured a money fetch. Kids who emerged from the pool with the most loot were: Dan Gutlich, Jeff Sanchez, Stephanie Birkholz, Karen Mills, Mark Witherill and Megan Holden.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, July 29. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is $3.50, 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 Thursday, July 24. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you on the train. Refunds will be made only if cancellations are received by the Friday preceding the scheduled trip.

Note: The LIRR has raised the round-trip fare for adults to $3.50, effective this trip.

Cafeteria Menu

Week Ending July 24, 1981

Monday, July 20		
Corn chowder	(cup)	.60
	(bowl)	.70
Broiled chicken liver & 1 veg.		1.60
Sweet & sour pork on rice		1.65
Hot Deli: Pastrami	(on bread)	1.65
	(on roll)	1.75
Tuesday, July 21		
Beef vegetable soup	(cup)	.55
	(bowl)	.65
Seafood Creole on rice		1.60
Roasted turkey & stuffing w/cranberry sauce		1.60
Hot Deli: Sausage hero		1.70
Wednesday, July 22		
Navy bean soup	(cup)	.55
	(bowl)	.65
Beef stew		1.65
Chicken pattie Parmesan w/spaghetti		1.60
Hot Deli: Grilled Reuben		1.70
Thursday, July 23		
Chicken noodle soup	(cup)	.55
	(bowl)	.65
Roasted top round of beef & 1 veg.		1.65
Eggplant Parmesan & 1 veg.		1.60
Hot Deli: Roasted turkey breast	(on bread)	1.65
	(on roll)	1.75
Friday, July 24		
Fish chowder	(cup)	.60
	(bowl)	.70
Fish & chips		1.60
Breaded pork chop & 1 veg. w/applesauce		1.65
Hot Deli: 8-foot hero		.75/inch

It Could Be A Record

Mort Rosen

Ted Johnson, Medical Department, was at the Hunts Point Food Terminal in New York a couple of weeks ago, when he spotted this giant watermelon sitting on a scale. It weighed 88 lbs., was 30" long and 39" in circumference. It had been sent up from South Carolina, along with a lot of other produce, and was being used here as an advertising gimmick. Everyone was standing around admiring it, and just on the off chance, Johnson said to the buyer, "how much do you want for it?" When the buyer said, "Oh, give me $10," Johnson grabbed it. He plans to cut it open this weekend and figures he can probably feed the whole neighborhood. He was thinking of "planting" the watermelon in his own garden and saying to the neighbors, "Look what I grew!" But he couldn't get away with it because they had already seen it on his truck.

Curtain Going Up!

Doug Humphrey

Sandi Lane will be the obnoxious little girl called Edith Anne (a comedy act originated by Lily Tomlin) when the Fourth Annual Vaudeville Show takes off tonight at 8 p.m., at the Brookhaven Center. See Sandi and other members of the Theater Group in a program of songs, snappy stories, dancing girls, a barbershop quartet and other entertainment. The show will be repeated tomorrow night. A cash bar is available. Admission is $3.; $2 for those under 12 and over 65. For information, call Liz Russell, Ext. 3940.

More T-Shirts

Due to the overwhelming success of the BNL Summer 1981 T-shirt campaign, the deadline has been extended until July 24. Place orders by mailing $4.75 (cash or money order) to Renee Flack, Bldg. 460, or stop by room 112, or 113, Administration. For information, call Ext. 3316.

Hospitality News

A morning get-together will be held Tuesday, July 21, from 9:30 to 11:30 a.m. in the Brookhaven Center. Coffee, tea and danish will be served.

All wives of Laboratory employees and guests are welcome. Please come and bring the children. Babysitting will be provided free of charge. We suggest you bring along a toy or two for your child to play with.

A formal program will not be presented in order that we may have plenty of time to welcome newcomers to the Laboratory and greet our old friends.

Softball

Scores For Week Of July 6:

League I
Blue Jays 10 - Source I 6
Six Pax 24 - Ravens 14

League II
Roga (won) - Deegenerates (forfeited)
Moles 17 - Big Sticks 16
AMD Bombers 10 - Cardinals 9

League III
Electric Company 21 - Binary Bombers 20
The Forties 12 - Dirty Sox 11
Ice Pops 11 - Magnuts 7
Lights Out 22 - Medical 14
Nuke Powers - bye

Scores For Weeks of June 29 and July 6:

League IV
Nads vs. TNT
Game postponed
Turkeys vs.Thrids
Game postponed
E-Z Riders vs. Nads
Game postponed
Survivors 11 - TNT 9
Balls & Strikes 17 - Random Sample 10
Makeup Games:
E-Z Riders (won) - Balls & Strikes (forfeited)
Turkeys 9 - Nads 2

League V
No Names 14 - Molesters 3
Underalls 18 - Solar Power 17
No Names 18 - Who Cares 16
Source III 15 - Molesters 14
No Feedback vs. Mudville Sluggers
Game postponed
Makeup games:
Who Cares (won) - Solar Power (forfeited)
Who Cares 11 - Molesters 10

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.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex or handicap.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific 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: Opportunities for present Laboratory employees and outside applicants.

1594 ENGINEER - Requires a BS/MS in mechanical engineering or equivalent and hands-on knowledge of commercial nuclear power plant systems and operations. Will be responsible for the analysis of nuclear power plant operations including plant site specific reviews of operations, testing and maintenance procedures, safe shutdown analysis and component impact on system unavailability. Department of Nuclear Energy.

1595 ENGINEER - Requires a BS/MS in nuclear engineering. Will be responsible for implementing, modifying and maintaining reactor accident analysis computer codes. Should be knowledgeable of nuclear reactor power plant systems. Department of Nuclear Energy.

Autos & Auto Supplies

BODY PARTS - 1970 Toyota Hilux, most parts in new or excel cond. Reasonable, Ralph, Ext. 2368 or 928-6654.

73 DODGE MONACO - wgn, p/s, p/b, a/t, a/c, CB am/fm stereo, radials, 2 extra snows, 76,000 mi, many new parts. Best offer. Ext. 3926.

78 HONDA - Hawk II (400cc) mint cond, low mi., many extras, must see. Forced to sell. Sacrifice. $1,450. Ext. 2926 or 281-0268.

8 TRACK PLAYER - realistic, like new, cost $50, now $20. Ext. 3431 or 744-9677.

SSP BRUSH GUARD - and cab step for Blazer Jimmy Chevy GMC (Stroppe Product) George, Ext. 5288.

289 ENGINE - good cond, new flywheel, 4 spd. trans, excel cond. $150. Takes all. Ray, 589-3485.

70 OLDS - Delta 88 convertible, good engine, needs rear window. Carl Cantera, Ext. 2417 or 589-4883 after 6 p.m.

23' 1976 TITAN CAMPER TRAILER - needs work. $1,500. Sue, 473-2990 after 6 p.m.

CAR STEREO - am/fm 8 track, very good cond. $60. 929-3130.

72 KAWASAKI - M/C 350cc, 3 cyl, good cond, red. Jim, 281-8957.

71 VOLVO - Sta. wgn, 4 cyl, a/t, excel tires & brakes, recently inspected. Asking $995. H. Sauter, Ext. 3783.

64 VW BUG - mint cond. all around. Must see. 924-6629.

71 POP UP CAMPER - sleeps 8, sink, stove, ice box, good cond. Negotiable. 744-4047.

76 VW SCIROCCO - 26 MPG, am/fm cassette, maintenance log for inspection. $4,000. Susan, 472-2621.

71 TORINO - S.W., needs work. $350. Ext. 3477.

PUSH BAR - fits Chevy trucks w/lights, tow hooks. $75. Mint cond. Jim, 265-5218.

77 YAMAHA - 360cc, elect. start, blue, 7500 mi, like new, 2 helmets. Reasonable. 929-8204 after 5 p.m.

79 FORD - Fairmont, 6 cyl, a/t, a/c, 4 dr. $3,950. Terry, 499-8377.

74 INT'L SCOUT - 4 WD, a/t, a/c, r&h, heavy duty traiger pkg. Asking $1,200. Barry, 929-8456.

72 VW - Mod 411, mechanics special. $250. Jack, Ext. 2377 or 281-2382.

TIRES - (3) G78-15, excel tread, need tubes, $5. ea; A78-13 new tire on Mopar rim. $10. Bill, Ext. 7772 or 281-0557.

73 SUPER BEETLE - a/t, am/fm, rack, excel cond. $2,000. Ext. 2476 or 751-2149.

73 TOYOTA CORONA - 4 spd manual trans, new tires, runs good, some body damage in rear. Asking $400. 744-3945.

77 VW DASHER - high mi. on engine, body good. $700. Frank, Ext. 4709.

75 PINTO - 2300cc, a/t, w/vinyl top, p/s, p/b, a/c, fm, broken headlight, side window jammed. $1,000. Bob, 924-0589 or Ext. 4393.

76 HONDA - 360CB, windshield, luggage rack, sissy bar, extras, mint cond. $875. 281-8274.

68 FORD - Sta. wgn, runs well, body rusted, needs minor motor repair. $125. Herb, 929-4446.

POP UP CAMPER - sink, stove, refrig, cooler, heater, light weight, mint cond. Good buy. John, 727-7741.

73 PLYMOUTH - Road Runner, excel cond, very good MPG. 281-3093 or Ext. 4576.

80 CHEVY LUV - 4 WD, cap, am/fm cassette, many extras. $7,500. 698-3030 after 7 p.m.

76 PONTIAC - Ventura, 4 dr, s/t, radio, excel cond, 75,000 mi. $1,700. Ext. 3369 or 3229 eves.

AM/FM STEREO RADIO - for 'X' car in dash installation, drives 2 or 4 speakers. $50. Bill Espensen, Ext. 3992 or 298-4172.

69 MALIBU - 2 dr, '72- 6 cyl, mech. & body very good. $850. Steve, 924-6744 after 6 p.m.

67 CLASSIC CORVETTE COUPE - silver blue w/black int., 4 spd, must see. $7,500. 588-4407.

72 CHEVY NOVA - 4 dr, good cond, new rear tires (2) $450. Chien, Ext. 3723/4407.

74 PLYMOUTH GOLD DUSTER - 6 cly, a/t, extra snows, body/engine good, reliable. $1,600. Beverly, 751-8246.

72 STEURY POP UP CAMPER - ice box, stove, sleeps 8, good value. $1,200. Ext. 3322.

HONDA CB750 - set of 4 carbs, complete like new. $100. Dennis, Ext. 3533 or 654-2076.

72 FORD TORINO - sta. wgn, runs good. $250; 1969 VW square back, a/t, runs OK, needs work. $325. Murdock, Ext. 2386.

78 FIAT 128 COUP - excel cond. $2,700. 653-6694.

78 VW RABBIT - 2 dr. custom, 37K mi., fuel inj. reg. gas, 4 spd. std. trans, a/c, am/fm cassette stereo, rustproof & polyglycoat & more. Ext. 3061 or 751-0894 George.

74 MUSTANG II - high mi., running, best offer over $200. J. Lynch, Ext. 4510 or 744-0843.

74 VW DASHER - Asking $750. Frank, Ext. 4709.

78 CHEVY NOVA - custom 6 cyl, a/t, a/c, p/s, p/b, new tires, 38,000 mi. $3,900. Terry, 499-8377.

MOTORCYCLE WINDSHIELD - Silhouette clear plexiglass, 6 mo. old, excel cond. $75. 399-1305.

PARTS - Chevy 350 Turbohydramatic transmission + 36 gal. gas tank to Chevy Van. Jack, Ext. 4087.

ENGINE - Chevy 350 complete motor, 4 barrel, electronic ignition, 4 bolt main, stock. Lou, Ext. 4087.

70 NOVA - excel transp, reliable & mechanically sound, a/t. $850. Tom, Ext. 3535.

TOYOTA ENGINE - 8RC rebuilt, new cylinder head, timing chains, valves, reasonable; Truck cap, 6 ft. white fiberglass, excel cond. Reasonable. Ralph, Ext. 2368 or 928-6654.

VW MUFFLER - 60's through '73 w/tail pipes, never used. $30. Jim, 265-5218.

67 CHEVY NOVA - 4 dr, good body & engine, 6 cly, Keystone wheels, air shocks, needs battery & rad. $500. Ext. 4297 or 929-6877.

68 VOLVO 122S - low mi., mech. sound, body restoration in progress, plus parts, engine, carbs, etc. $650. J. Lynch, Ext. 4510 or 744-0843.

78 MERCURY ZEPHYR - Purchased new, 1979, excel cond. Toni, 928-6562, 5-7 p.m.

Boats & Marine Supplies

12' SEARS FIBERGLASS - boat, 7½ HP motor, boat, trailer. $950. Takes all. Ann, 567-4222 or 924-3148.

40 HP EVINRUDE - good cond. Just overhauled this summer. Tank & hose. $350. Dave Jensen, 981-0810.

23' OYSTERMAN - fiberglass ketch launched 1980, fully equipped. $15,000. 286-8915 after 6 p.m.

BOAT TRAILER - Tandem Shoreline Deep-Y, 5,000 lb. bearing buddies, toung Jack, galvanized, no rust, excel. Richie, Ext. 4254 or 734-7342 after 6 p.m.

EVINRUDE SELECTRIC - control box, $12; lower unit 1968 Evinrude 80HP, $35. Harris, Ext. 4095.

WILCOX CRITTENDEN - Marine toilet includes bronze inlet fittings, needs holding tank. $50. Ext. 4166.

16' ALUMINUM - Mirror Craft, 28 HP Evinrude, galvanized trailer, easy trailering. $750. Dennis, Ext. 2897 or 727-7278.

TANK - Evinrude 2 hose, $15; 6.00x12 trailer tires, 2/$25; oars, oar locks, $12. Harris, Ext. 4095.

Yard Sales

YARD SALE - July 17, 18 & 19th, 10 to 5 p.m., 414 So. Country Rd., Brookhaven. 5 families.

MOVING - Contents of House sale. Freezer, sofas, bedrooms, dining room. Sea Snark. 265-7696 or 360-3235.

YARD SALE - July 24 & 25, 10 to 5 p.m., 20 Teller Ave., Coram. Many household items. 732-9517.

Miscellaneous

BAMBOO STAKES - all sizes; Malachite necklace; '79 La Coste racket (5) excel, reasonable, or will trade for Head Pro; tripod, strong, all features, 52" extended, used once. $25. Ext. 3688 or 363-7032.

TRANSMITTER - 50 watt, 80-10 meter cw. Johnson Adventurer, perfect. $35. Alan, 821-0761 or Ext. 2928.

FUEL OIL TANK - 275 gal. cap. $30. Ext. 4316 or 924-3783.

DEEP WELL PUMP - 3/4 HP, 110/220 volt, new. $200. 924-3522.

LIVING ROOM SET - green overstuffed, $185; bedroom set, grey modern, $185; GE dryer gold, $175. 744-3792 or Jim, Ext. 2050.

BARBER'S HAIR CLIPPER - trimmer; scissors, extra blade, new, excel cond. 472-1397.

GUITAR - Peavey T-60 electric w/early case, maple neck, good cond. $325. Dan, Ext. 5038.

SOUND GUITAR AMP - 45 watts, R.M.S. Jensen speakers, solidly built, excel. $100. Steve, 286-0534.

BATHROOM SINK - white. $5. Walter, Ext. 3397 or 567-9025.

DRESS LEATHER JACKET - like new, size 42. $50. 929-3130.

WINDOW - wooden double-hung, 37x39 O.D. matching screen & moulding. $15. 475-5960.

DOOR - exterior new 2'8"x6'8"x1¾" (3) windows R Pre hung, Fir. $110. 924-6582.

TV - 12" B&W excel cond. $50; girl's bike 20" banana seat, new tires. $25. Larry, Ext. 4509 or 3020.

DINING ROOM - china closet, buffet, table w/3 leaves and pad, (6) chairs. $425. 981-4419.

ENGLISH SPRINGER SPANIELS - AKC, champion-sired, liver & white, excel temperament, superior family dog. 941-4615 after 6 p.m.

KEYBOARD - "Carlo-Robelli" with base, excel cond. $250. Ext. 2050.

SNOWMOBILE - Skidoo Model 320, needs some engine work, good cond, $120. 286-1522.

POST HOLE DIGGER - needs work. $2. Vic, Ext. 2395.

FREEZER - 17 cu. ft., GE, good cond or trade for smaller unit. Ext. 4098 or 281-8318.

FIREPLACE DOORS - brass glass excel cond. Asking $60. Bob, Ext. 4672 or 929-4753.

FREEZER - 10 cu. ft. upright, Sears Coldspot, like new. $125. Ext. 3565.

DINING ROOM SET - Danish modern, oval table with two leaves, four chairs. $100. Ext. 3565.

HUMMELS - mostly old, some rare collector's items. 698-4432.

RECORDING TAPE - Scotch 290, 3600 ft. reels, new, unused. $6/reel. Ext. 3135.

TENNIS RACQUET - Arthur Ashe competition 4⅝ M, Blue Star, w/cover, excel cond. $40. 473-7667.

REFRIG/FREEZER - 21 cu. ft. Westinghouse side-by-side, coppertone finish, very good cond. $200. H. Sauter, Ext. 3783.

CANNING JARS - glass top, quarts. Ext. 2950.

SIAMESE KITTENS - for sale, male & female. $55. Call anytime 929-3207.

LOVE SEAT - white two piece, $400. Originally purchased in Bloomingdales for considerably more. Susan, 472-2621.

10 SPEED RACER - French made, all chrome, very lite, accessories included, color blue, 27". $135. 399-4213.

PILOTING - Seamanship & small boat handling by Chapman, and USPS Course Plotter, $10. 281-2289 after 5 p.m.

RED LINE - Pro Line BMX bike, all extras, race ready, mint cond, $325; weight set w/padded bench, $50; Midland 23 Channel CB radio w/antenna, mint, $50; CB SWR meter, $15. Jim, 265-5218.

GE PORTABLE WASHER - w/sink adapter, $50; wing back chair, $25; large overstuffed chair, $25. Marty, 286-0478 or Ext. 3563.

STAFFORDSHIRE - Ironstone dinnerware "Autumn leaves" service of 8, ideal for summer home. $15. Clarence, Ext. 3357.

TRADE/SELL - our King mattress & box spring (Stearns & Foster, excel cond) for your Queen bedding. Ext. 4771 or 286-8747.

GE CLOTHES DRYER - gold, excel cond, almost new, $175; bedroom set, grey modern double dresser, chest (2) night tables, mattress, box spring, $185; living room set couch, green, (2) chairs, overstuffed, (2) end tables, coffee table. $185. 744-3792.

LAWN MOWER - push type, in very good cond. $15. 744-5801.

FREE KITTENS - U pick, wide variation, nicely marked. Ext. 4737.

"RIDGID" - pipe vise post/chain Model, good cond. $40; "Ridgid" pipe threader ratchet type capacity 1", 1¼", 1½", 2", excel cond. $90. Fred, Ext. 4988.

DECORATIVE BORDER BRICKS - scalloped, curved, 24" long. $1.00 ea. 281-7844.

STORM WINDOWS - and screens, wood, assorted sizes. $2.25 per set. Barbara, Ext. 3437.

TAPE CASSETTES - quality FeOz, CrOz, FeCr retail $4.-$5, $2.50 ea. minimum 10. Ext. 2521 or 928-8379 eves.

MAMIYA/SEKOR - 35mm camera, 200mm telephoto lens, bag filters, close-up lens, more. $200. 467-8814 after 6 p.m.

FREE KITTENS - born May 18th; Sears Kenmore Dryer, fabric Master, best offer. 744-7157.

1/4 HP DELCO MOTOR - 110 S.P. 110v, 1730 RPM base mount w/3 pulleys. $4. Fred, Ext. 4988.

BICYCLE - 10 spd, good cond. $50. 669-9234.

PARROT - African grey w/cage. $350. Ext. 2480 or 924-6744 after 6 p.m.

TV - color 19" Radio Shack. $150. 331-9349.

CEILING TILES - aluminum accoustical (3 boxes/-white) will cover 120 sq. ft. $25; sewing machine, Vigetti deluxe, hardly used, good cond. $25. 286-8356.

COMPUTER - Netronics Elf II, many extras, complete, ready to run, w/full basic Level II. 281-3093 or Ext. 4576.

CAR SEAT - Bobby Mac w/removable safety shield. $8. 928-8465 or Ext. 3741.

FIREWOOD - for wood stove or fireplace, all hardwood split & in the process of seasoning. 399-4213.

ROCKER - good looking contemporary Bentwood, $75; pair of white traditional table lamps, $60. 286-8915 after 6 p.m.

EXTENSION LADDER - 12' long, wooden, excel cond./ $30. Ext. 5277.

KODAK - Starmitic camera w/flash & leather case. Joe, Ext. 4212. $15.

SPEED TUFTING KIT - includes tufting tool & loom, cost $35 now $25. Ext. 3431 or 744-9677.

OLD WALNUT - large dining room table w/4 chairs & buffet, good cond. $95. 727-1617.

SOLID MAPLE - full and twin beds & dressers; 25" Zenith Color TV; armchair, couch & hassock; 32x32" wall mirror; table; occ chairs; 60" steel office desk. Don, Ext. 3422 or 331-9203 eves.

SNOWMOBILE - Skidoo Model 320, needs some engine work, good cond. $120. 286-1522.

TV - 23" color console, needs new tube. $35; ping pong table, folding. 265-0501.

Ads left out of this issue due to lack of space need not be re-submitted to appear in next week's issue. Please note that ads may not be more than 15 words long and must be received in the Bulletin office by 4:30 p.m. Friday, for inclusion in the following week's Bulletin.

TV SET - 19" Zenith B&W, picture tube weak. Best offer. Susskind, Ext. 3611.

STROLLER - Perego folding Bye-Bye type w/hood, very good cond. $40. Louisa, Ext. 4207 or 286-2251.

ELECTRIC TYPEWRITER - Royal Electric (needs letter "e"), $25; pool table, needs work, $25; prom gown, size 8, blue, $15. 286-8356.

TV - 21" Admiral Console B&W contemp walnut cabinet. $50. 929-6148.

QUEEN-SIZE COMFORTER - w/shams, dust ruffle & 84" drapes, brown/beige pussy willow design. Professionally cleaned. Excellent. Cost $120. now $70. Theresa, Ext. 2913.

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

BELLPORT VILLAGE - 3 bdrms, 1½ baths, hi-ranch, eik, den, fam rm, deck, screened-in porch, attached 2 car garage, aluminum siding, excel cond. $46,500. 286-9310 eves & wkends.

MASTIC - 3 bdrm ranch, country kit, brick/cedar front, garage, full bsmt, fenced 1/3 acre on corner, near Forge River marina, assumable mtg. $39,000. 281-4371.

MANORVILLE - 3 bdrm ranch, 1 acre, country kit, bsmt, garage, 1½ baths, all appl. $41,000. Pete, Ext. 3868/4574 or 878-1225.

SHOREHAM VILLAGE - custom ranch, 3 bdrms, 2 baths, f/r w/fp, d/r, l/r, gourmet kitchen, 2 car o/s garage, 0.8 acre, w/w throughout, new oil burner, good financing, walk to priv beach, tennis, club. 821-0890 after 5:30.

SPEONK - 3 bdrm ranch, f/p, appl, low taxes, fully carpeted, s/s, deck, 1/3 acre. Asking $60,000. 325-1639.

For Rent

MEDFORD - 1 bdrm apt, full kitchen, l/r, full bath, w/w carpeting throughout. Priv entr. Avail Aug. 1st. $300/mo incl all util. Anne, Ext. 3336.

SPEONK - house to rent w/storefront, 3 bdrms, 2 baths, large l/r, d/r, kit, furnished, 20'x30' empty storefront, garage. $375. Dan, Ext. 5038.

EAST SETAUKET - 1 bdrm efficiency, priv entr, w/w carpeting, f/p, suitable for 1 unfurnished, full bath. $275/mo pays all. 751-7491 after 3:30 p.m.

SOUND BEACH - 4 bdrm house, furnished or unfurn, secluded, without util. Avail Sept. 732-3876.

Car Pools

STONY BROOK - Strathmore, want to join car pool. Jag, Ext. 5080 or 751-1884.

SETAUKET THOMPSON HY - Quaker Path area, desire 1-2 additional driving members, reg. hrs. Ext. 3631.

MATTITUCK - have car, wishing to join existing car pool. Bill Stars, Ext. 4279 or 298-9648 eves.

COMMACK RD./L.I.E. - need rider/driver for 2 person car pool. No smoking. 8:30 to 5:00. Ext. 5294.

HOLTSVILLE TO NSLS - ride wanted, Exit 72 or 73, or will car pool. Arnold, Ext. 4973.

Lost & Found

LOST - white motorcycle helmet w/tinted shield on 6/1/81. Dave, Ext. 2386.

Wanted

TRAINS - Lionel, American Flyer, accessories, any cond. brings good price. Carole, Ext. 3362 or 924-4097 eves.

AIR COND - to fit in 19"x23" window. Ext. 4771 or 286-8747.

AM/FM CASSETTE PLAYER - for a car, brand name, reasonable. 399-4213.

DANFORTH ANCHORS - Call Don, Ext. 3493.

MOTORCYCLES - bent or broken, any age or cond. Kevin, 281-8031.

USED CAMPER - or pop-up, good cond, for family of 5. 281-2289 after 5 p.m.

HOT WATER BOILER - oil fired, used, reasonable. Bill, Ext. 4052.

LATHE - small precision jewelers w/attachments. Ext. 3536.

DANFORTH ANCHOR - for 18' boat. Joe, 475-8440.

METRONOME - for Music student, inexpensive. Fred, Ext. 4988.

CHILD's PORTA CRIB - and bureau. 744-7157.

PLASTIC CONTAINERS - from Leggs knee-highs (not eggs). Ext. 4302.

TOOLS - watch, clock maker, all types. For student. Ext. 3536.

CLEANING WOMAN - reliable, experienced, throuough worker. 475-8658 after 6:30 p.m.

PONTIAC MOTOR - and automatic trans, V8, 1971-1973 preferable, must be good running cond. Ext. 5294.

GOOD HOME - year old mixed bred, male dog, mostly German Shepherd. All shots & neutered. Must sacrifice. Ext. 3699.

SMALL REFRIGERATOR - 12/115 v for camping. Al, Ext. 3354.

TABLE SAW - 10" or 12" commercial enclosed bottom side extensions, complete assembly. 878-8967 after 5 p.m.

RING & PINION - Chrysler 8-¼ axle, 3.50 ratio. Can swap w/2.71. Hans, Ext. 4584 or 281-5563.

DECK HOCKEY PLAYERS - all positions available, goalie essential, season starts early Sept. Ron, Ext. 3238.

WATCHES - for student watchmaker. Free or very reasonable. Ext. 3536.

CHOW PUPPY - male, black preferred, or female to mate w/male, no pedigree needed. 286-1522.

GOOD HOME - for kittens, males & females. Call Lois, Ext. 2959 or 286-1381.

GOOD PARENTS - for intelligent, lovable, pan-trained kittens. They even play fetch! Linda, Ext. 4478.

HOMES — for 2 adorable kittens, come from a good line of mousers. 325-1298.

HOMES - for 3 kittens, black, ready on July 2nd. Lois, 929-4753 or Bob, Ext. 4672.

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.