

# BULLETIN BOARD

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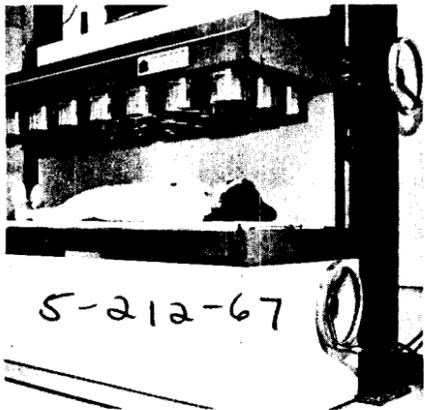
## Whole-Body Counting Now Part Of Physical

In 1958, whole-body counting was instituted at BNL to determine levels of internally deposited gamma-emitters in the human body. The first counter used on a large scale was a single crystal detector housed in a room with six-inch thick steel walls. The person being monitored sat in a chair inside the room for a thirty minute period while the detector measured the small amounts of low-level radiation his body contained.

Since last June, the old counter has been replaced with a 54-crystal model that can in fifteen minutes count the activity of much lower levels, and at the same time detect the area of origin of the radiation.

The whole-body count has now become a part of the routine annual physical examination of Laboratory employees. Since the program has started, approximately 1000 examinations have been made in the Low-level Counting Facility, under the direction of Dr. Stanton Cohn of the Medical Department.

The procedure for counting in the new facility is simple. The employee steps into a dressing room where, after showering, he



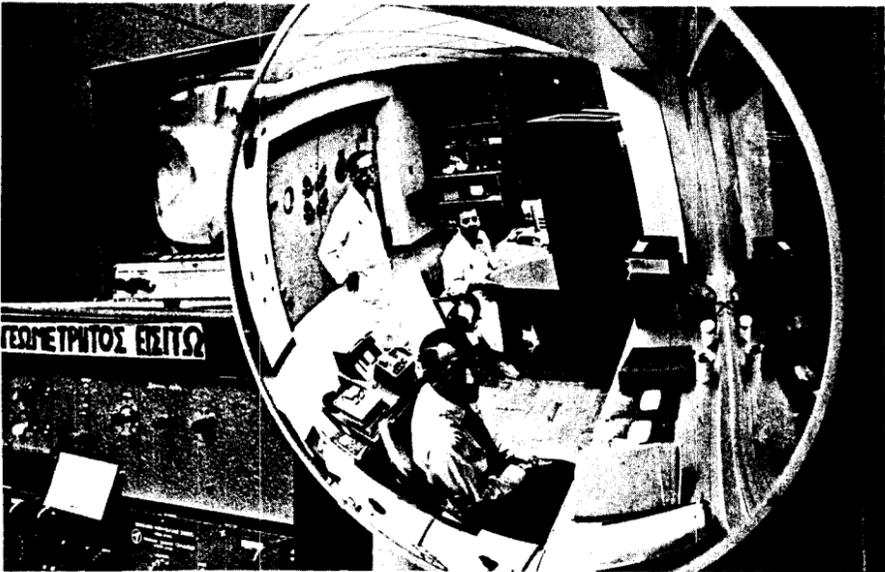
Top part of the 54-crystal whole-body counter. Another array of crystals is beneath the patient.

dresses in hospital clothes and goes to the counting room. He then lies down on a bed in between the two elements of the counter. The thick steel doors to the counter room are closed and a TV camera is focused on the bed. Music is playing on a loud speaker, and an intercom is hooked up to the control panel.

After a fifteen-minute period, the doors are opened, and if the person being counted has not fallen asleep, he gets up, retrieves his clothes, and after dressing leaves.

People who are not regularly exposed to radiation in the course of their work are measured or "counted" to get a general check on average levels of radiation. Those who work in radiation areas are checked to insure that they have not exceeded safe levels of exposure.

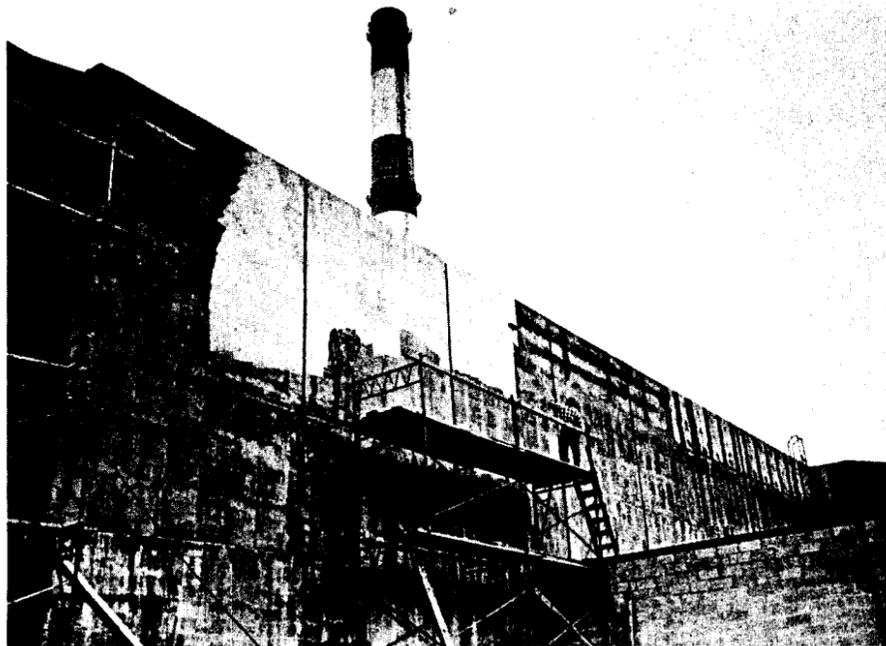
All people have certain minute amounts of naturally-occurring potassium-40 in their bodies, and since 1954, a small amount of Cesium-137 that had its origin in world-wide fallout from nuclear weapons tests. The new counter measures these



Control room at the counting facility. To the left of the circular mirror is a TV screen showing a patient in the counting room.

Photos by Humphrey

## Tandem's Great Wall Gets A Facial 7-775-68



To keep its structural beauty intact, the Tandem's retaining wall was painted with a weatherproofing composition known as Pliotone. It took 8 men, 10 working days, and 150 gallons of Pliotone to complete the job. If 150 gallons of paint is hard to picture - it takes approximately 1 gallon to paint the average living room, or 10 gallons to paint the average house.

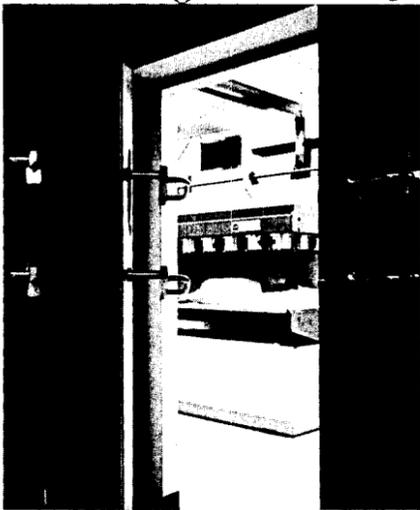
Photo by Humphrey

minute amounts of radiation, and feeds the information it has obtained directly into a computer where it is analyzed and stored.

The new counter is ten times more sensitive than the old one, and because of the large number of detectors, can localize the source of radiation in a person's body.

Although it is intended that whole-body counting be included with all annual physical examinations, there will be times when use of the equipment for clinical research will make it unavailable for routine examinations.

Dr. Cohn, who lectured on whole-body counters at a Naval Reserve Lecture last night predicts that if present growth rates are maintained, by 1977 there will be 10,000 whole-body counters in use throughout the world, as compared to the 100 or more that are in use today. 5-450-68



Thick steel doors are closed when counting is taking place.

## Tennis Enthusiasts Attention!!

The Recreation Office has extended contestant registration in all events with the exception of the Open Men's Singles. Deadline for Men's Doubles, Mixed Doubles, Senior Men's Singles and Ladies' Singles is now Friday, July 19th at 2:00 p.m.

Register at the Recreation Office in the Gymnasium, 3 Center Street. Fee for registration is \$.50 per person per event.

## Long Island Editors Tour Lab Facilities

Seventeen members of the Long Island Communicators Association toured Brookhaven Laboratory last Tuesday after viewing the Brookhaven Spectrum, and hearing a brief review of BNL's research program given by Norb Dernbach, Public Relations Officer.

The Communicators are editors of magazines and newspapers published for limited distribution to employees, stockholders, potential customers of large industrial concerns, research institutions, and community enterprises such as banks, hospitals and public utilities. The combined publication circulation of the 43 members is considerable. Walter Euler, Editor of the LILCO News which is published for the Long Island Lighting Company employees, is president of the L.I. Communicators Association.

Accompanied by Daniel M. Schaeffer who explained the research uses of the facilities, the group visited the Brookhaven Graphite Research Reactor, the Alternating Gradient Synchrotron, and the High Intensity Radiation Development Laboratory. Following the tour, informal discussions were held at the Brookhaven Center.



Editors stand at loading face of the BGRR in this view taken from the top of the "pile."

7-467-68

## Stable DNA Clue To Long Life Says Brookhaven Biologist

Dr. Howard J. Curtis, Senior Biologist at BNL reported recently that one possible way to increase life expectancy would be to find a way to stabilize DNA in living organisms.

In a paper he presented at a Symposium in Medical Chemistry in Quebec, Canada, Dr. Curtis stated, "It is found that long-lived animals have very much more stable DNA than do short-lived animals. Perhaps life expectancy can be increased when we know more about the forces stabilizing large molecules."

Dr. Curtis said that during the present century the average life expectancy has increased phenomenally, but the maximum life span of man has not changed during recorded history. This means that modern medicine has had great success in treating the communicable diseases, but the degenerative diseases that are largely responsible for death in the older members of the population have been affected very little.

For a number of years Brookhaven has been concerned with the problem of why people age. One theory is that aging is caused by spontaneous lesions in the DNA molecules of the cells of the body. In germ cells these are called mutations; in body cells malfunctions would result and lines of defective cells would be generated.

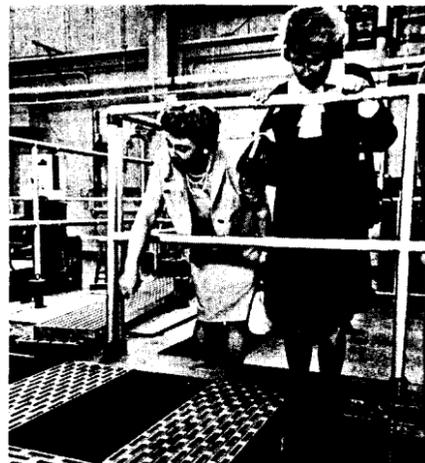
A method has been developed for estimating the percentage of mutated cells in mice, and this has been related to aging and other influences which alter life expectancy. The aging process is beginning to be understood in terms of the molecular functions within the cell.

## Tuesday Dances First One - July 23rd

We have contracted the services of Tony Forlano's Orchestra to provide a 3-piece combo at the Recreation Building, York Lane in the Apartment Area, on three Tuesday evenings this summer.

The first is on July 23rd, the others in August, on 6th and 13th. We would like to have everyone come so we're only charging a token 50¢ admission to help defray part of the costs. Tickets may only be purchased at the door. The band will play from 9:00 p.m. to 12:00 p.m. Cold canned beer and soda at 15¢ per and chips and pretzels at 10¢ will be available for purchase.

The dress is casual. Invitations are extended to all. Bring a friend, spouse or come alone - but come!! 7-462-68



Two editors lean forward for a closer look at the gamma pool of HIRDL.

**A Happening On Bellport Lane**



The gazebo in the Garfield's garden (right) is almost obscured by the working members of the filming party. The actress can easily be identified - she is the only one with no pockets for her hands. Photos by Garfield



Waiting for the right light.



Makeup was frequently adjusted.

When Madison Avenue is involved in making a motion picture film for a 30-second commercial on television, the production crew comes equipped with everything. John Garfield, Photography and Graphic Arts Manager, can testify to this from personal experience.

Garfield, who has constructed a beautiful turn-of-the-century gazebo in his garden, was approached for permission to film a TV commercial using the gazebo for a background to add atmosphere. John, being sophisticated about photographers, and having produced several movies here on site, readily gave his permission for the use of his garden and gazebo. How upsetting could a 30-second commercial be? To film the 25-minute Spectrum it took seven people. To make a 4-minute news film on the biosatellite it took three people.

At ten a.m. on the day of the shooting, a convoy consisting of a bus, a truck, and three cars stopped in front of the Garfield house and disgorged 24 people, all involved

in the production of the 30-second commercial.

Included in the group were: three people from the company paying for the commercial, two people from the advertising agency, two actors, one wardrobe mistress, one hairdresser, one make-up man, one director, one assistant director, one movie cameraman and one assistant cameraman, an electrician, two property men, two helpers, two drivers, and a still cameraman.

As things became organized, from the truck came lawn chairs, golf clubs, a frisbee and lots of sun-tan lotion. In the bus was a coffee machine and a john. Now that everything was ready, the crew sat around and waited for the right light.

Finally, in the late afternoon the short scene was shot, and reshot, and "once more just in case." The cars and trucks were loaded up, the convoy departed, and peace and quiet returned again to the idyllic setting of the Garfield garden. The "Happening" on Bellport Lane had ended.

**Special Swimming Pool Events Scheduled**

BERA has planned special pool events for the Summer days ahead. It is hoped that all children will take part in and enjoy these programs.

The "Penny Fetch" will start the specials on Friday, July 19 at 3:00 p.m., followed on Friday, July 26 with a "Watermelon Scrimmage." A "Money Ballon" will be dropped into the pool on August 2nd and it will be followed by relay races on the following Friday. A diving Jamboree will be held on August 2nd also.

These events are open to the children of all employees, both on and off-site. All programs will begin at 3:00 p.m. sharp.

**Bowling Starts Soon**

Applications for next winter's bowling leagues are now available at the Recreation Office. All leagues will be handicap, and here are the **deadline dates**:

Priority for last year's teams - August 9th.

Registration - August 23.

New teams have until August 23rd to round up 5 men or 4 gals to join a league.

We bowl after work - about 6:00 p.m. at local alleys. The applications give you a choice of night and place. BERA supplies trophies at the end of the season.

Remember - for priority - get your application (with money please) and return it by August 9th.

**Editors View Lab Scene**



Members of the Long Island Communicators Association are interested listeners as a model of the AGS is explained to them. The group visited the control room, the magnet tunnel and the experimental floor of the AGS. Photos by Humphrey

**Dollars and Sense**

Bob Flanagan

**1968 Income Tax - Plan Now Don't Pay Later**

With the arrival of the Federal Income Tax surcharge this is an appropriate time to review personal tax situations and make appropriate withholding revisions to avoid the possibility of a large year-end surprise. Monthly employees may still make withholding revisions to be reflected in the July check if they notify Payroll by Tuesday, July 23. Weekly employees revisions will be effective no later than the second paycheck after filing.

Since most of us never see the amount that has been withheld we tend to lose sight of the distinction between the *total tax* and the *tax due or refund* from the Government at year end. The total tax will undoubtedly be 7½% higher for 1968. From a planning point of view the only thing you can do is write your congressman. On the other hand you *can* plan now to effect the final tax due or refund by considering the following points:

1. If you are currently claiming only your regular exemptions (i.e., self, spouse, children, etc.) your Federal Withholding will be automatically increased by virtue of the revised tax tables. Note however that the amount to be withheld is designed to fall short of the year end tax bill. Consider revising your W-4 statement for an additional amount.

2. If you have specified a fixed amount of Federal Withholding (i.e., \$200, \$400, etc.) to be deducted this should now be increased by 7½% which is the effective increase for 1968.

3. If you wish to increase your Federal Withholding by reducing your exemptions on a new W-4, remember this will also cause an increase in your New York State Withholding which may not be your intention. Of course if you are one of those fortunate people who are effected by the N.Y. State tax increase (taxable income over \$17,000) this may be just what the Governor ordered.

4. To increase N.Y. State Withholding *only*, a memo to Payroll will do the trick.

5. A reminder for those who have been receiving large refunds and expect the same in 1968 despite the surtax, additional allowances may be claimed to effect less withholding and greater take home pay by filing a new W-4 with Payroll.

6. For an individual with significant outside income (dividends, interest, rental income, etc.) that require him to file a quarterly estimated tax return you'll probably find it less of a chore to increase your withholding at the Laboratory and eliminate the necessity of making these additional quarterly payments.

Remember monthlies, only 5 paydays until Christmas. To adjust your July check, Payroll must be notified by *July 23*.

**Here and There**

Dolores del Castillo

**Belmont Sylvester** (NED) recently returned from a visit to Reykjavik, Iceland, where, at the request of the AEC, he supervised the installation of a shipboard irradiator.

**John H. Cusack** (NED) recently returned from a trip to Chile, Argentina, and Venezuela where he discussed installation requirements, operating characteristics and modifications of AEC-loan irradiators to be installed by HIRDL personnel during FY 1969.

**Carl R. Flatau** (Accelerator) was the inventor of "Counterbalanced Manipulator" for which U.S. Patent No. 3,391,804 was awarded on July 9, 1968 to the AEC.

On the same day U.S. Patent No. 3,392,280 was issued to the AEC for "Mass Spectrometer Utilizing an Ion Beam for Ionizing the Gas to be Analyzed," invented by **Lewis Friedman**, **Thomas F. Moran** (terminated), and **Jacob J. Leventhal**, (all of Chemistry).

**James G. Stangby** (Biology) has accepted an invitation to serve as a Member on the Advisory Committee for the Biological Program of Suffolk County Community College in Selden, New York.

The International Congress of Photosynthesis Research was held recently in Freudenstadt, Germany. **Geoffrey Hind** (Biology) was elected to sit on the committee

**BULLETIN BOARD**

Published Weekly for the Employees of Brookhaven National Laboratory

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NORBERT J. DERNBACH  
Public Relations Officer

**Letters To The Editor**

Dear Sirs:

Would you be so kind to send me:

1. A modern physics text book (university level).
2. A quantum electronics text book (university level).
3. A nuclear physics text book (university level, any author will do).

It is difficult to obtain such books in Poland and I would be very obliged if you could do me such a great favor.

If the payment in Polish money was impossible I should be very glad to have these books, even the second-hand ones.

I am thanking you in advance.

Yours faithfully, Mr. Tadeusz Skowron  
Czestochowa, Poland

Editor's Note: If anyone wants to send books to Mr. Skowron, please call John Binnington, Ext. 2274.

**Arrivals & Departures**

**Arrivals**

Jacob Gilat.....Nuclear Engr'g.  
James J. Shields.....Central Shops

**Departures**

Noreen E. Almond.....Medical  
Richard M. Coligny.....Accelerator  
Eric B. Forsyth.....Accelerator  
Jesus I. Sanchez.....Instr. & H.P.

**Film Found**

A plastic container containing a one-foot strip of 35mm film was found outside the Research Library. A legend at the beginning of the strip has the name Blum and a date 7/12/68. There are six curves following the legend.

The owner may retrieve the container at the Bulletin Board office at Room 112, 40 Brookhaven Avenue.

**Hospitality News**

A Hospitality Committee coffee meeting will be held on Monday, July 22 from 10 a.m. until 12 noon in the Apartment Area Recreation Building. All newcomers and old timers are invited to attend.

as chairman of the section "Biochemistry of electron transport," and also presented a paper entitled "The role of chloride ion in photosynthesis" **John M. Olson** (also of Biology) attended the meeting and presented a paper entitled "Ellipsoid model of the chlorophyll-protein from green photosynthetic bacteria."

**Leslie F. Nims** (Biology) was an invited discussant at a recent meeting of the American Neurological Association held in Washington, D.C.

**William J. Schneider** (Accelerator) attended a two-week seminar on "Military Applications of Data Processing" recently held at the U.S. Naval Academy in Annapolis, Maryland. Schneider holds the commission of Lieutenant in the Naval Reserve.

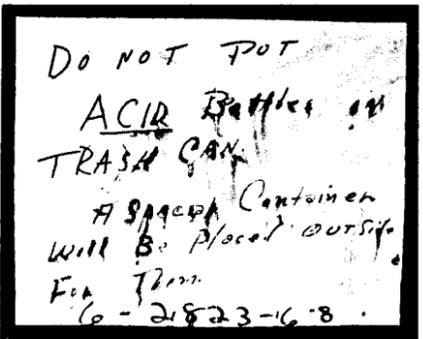
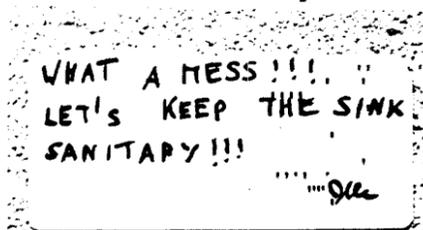
**David F. Sangster**, AEC Research Establishment in Sutherland, Australia, will visit the Laboratory July 22 and 23 for discussion on industrial radiation processes.

**Pedro Faria** of the Brazilian Congress will visit the Laboratory on July 25.

Members of the Suffolk County Planning Commission visited the Laboratory for a general tour of the major research facilities.

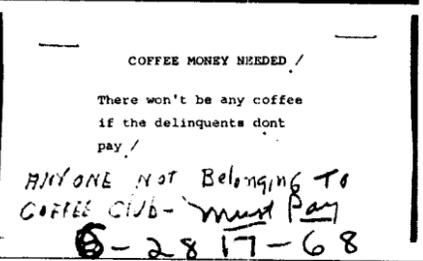
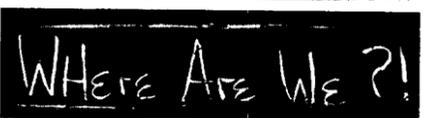
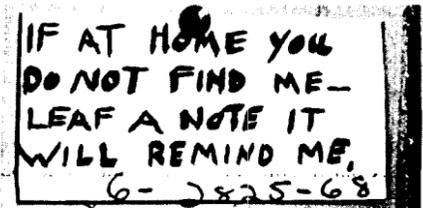
An exhibit on power and fluid transmission will be held at the Exhibit Hall on July 24, from 9 a.m. to 4:30 p.m. All employees are welcome.

**Graffiti — BNL Style**



The following examples of graffiti are found in public areas of various buildings around the site. A graffiti can be defined in general as any spontaneous and graphic form of self-expression. There is no reason for excluding tatoos and skywriting for instance, from the ranks of graffiti.

Photos by Humphrey



**Bermuda Shorts And/or Slacks??**

The choice is yours! You can wear them or anything you feel comfortable in - sportshirts, sandals, sneakers. If you'd like to, wear a grass skirt when you come to BERA's biggest summer dance in years - "The Beachcombers Dance." This seasonal special will be held in the Gymnasium on Friday, August 2nd from 9:00 p.m. to 2:00 a.m.

For five solid hours of fun, entertainment and dancing, we have booked one of the finest orchestras on Long Island - Wayne Foster featuring Frank Fields. Your popular request for his return was heeded by the Supply and Material Division which is doing the necessary committee work to insure your night's pleasure.

Grand plans to convert the Gymnasium to a South Seas Paradise are being made by the decorating committee. Unfortunately, their request to import twenty tons of white sand from Fire Island has been denied.

Set-ups and beer will be on sale at cost. If you like, bring your own Summer concoctions. Chips 'n' pretzels 'n' ice will be provided. Special prizes will be awarded.

How much does this cost you? It's hardly worth mentioning - but \$1.50 each for employees and escort; \$2.00 for your Guests who are more than welcome.

All tickets will be sold only at the door.

**Evening Aquatic Carnival Planned**

An added attraction to our Swimming Pool Program this Summer will be an Aquatic Carnival. This event will be a night's enjoyment for all who attend.

The program, which will consist of games and competitions, will run from 7:00 p.m. to 9:30 p.m. Participation in the evening's special will be open to all those children enrolled in the Morning Play Program or the Swimming Lesson Program. The Pool will be closed for other swimming.

**Morning Rec Program**

7-777-68



The On-Site Morning Recreation Program started this week with a get-together of the mothers of the participating children. In the foreground are the directors of the program (left to right) Guy Mastrion, Pat McCafferty and Walt LaPrarie.

**Softball**

Tom Lee

**Brookhaven League - Blue Jays 8 - Dirty Sox 7.** F. Strelecki drove in the winning run in bottom of the seventh for the Blue Jays. **Batmen 21 - Bubble Boys 3.** The Blue Jays and the Batmen, both undefeated, play each other next Tuesday on Field 3. **Medical 0 - Old Timers 25.** Need I say more?

**National League - July 3rd Make-Ups 12 - Potsareebies 2; Make-Ups 5 - Potsareebies 1.** The Make-Ups are the first-half champs. J. Bennett, the winning pitcher, now has a 7-1 record. E. (Frank Howard) Vaughn hit two more HRs. R. Phillips and L. Kalmar each hit one. **Rat Pack 7 - Phoubars 6; Rat Pack 7 - Phoubars 4.** Pack had two close ones with a game-saving catch by W. Atkins in right to win the second game. **Metallurgy 8 - Six Pax 7; Metallurgy 10 - Six Pax 3.** Metallurgy needed nine innings to win the first game.

**July 8 - Make-Ups 12 - Rat Pack 7.** For the second time this year, the Make-Ups downed the Pack by this score. M. Cantwell hit a Grand Slam (?) HR in the Sixth to break the Rats back. McCluskey and Nemshick also hit HRs. For the Pack Campbell and Gassner had HRs.

**July 10 - Make-Ups 16 - Phoubars 0.** J. Bennett threw a 2-hitter against the Bars, as the Make-Ups won their ninth straight game. **Rat Pack 11 - Six Pax 6.** D. Vail, the winning pitcher, struck out 4 and hit a HR. C. Murray was losing pitcher. **Metallurgy 7 - Potsareebies 4.** Metallurgy meets the Make-Ups next week in the battle of the undefeateds (Leonard Farnce - look out).

**Laboratory League - AMD 15 - Converts 4.** E. Fisher of AMD scored a HR. **Mets 14 - Sharks 5.** There were three double plays in this game, one each in the first, second and third innings, all by the Mets. **Charlie Browns 10 - Deadwoods 9.** The Charlie Browns did it again - actually won another game this year despite 2 HRs by T. Lanigan for the Deadwoods.

**Softball Special**

The Softball Executive Board has a special for League games of July 23, 24, and 25th. A case of beer will be awarded to the team in each league which scores the highest number of runs in a single inning with a bonus of two cases for the team which scores the highest for all the leagues. To make this even more interesting, a case of beer will also go to the lowest scoring team with a bonus to the lowest of the three leagues - 2 cases.

Score 21 runs during the July 30, 31 and August 1st games and win 5 cases of beer! If the score is not hit, a drawing will be held for the prize. A Blind Score will also be placed in a sealed envelope for this week with the team coming closest to but not exceeding it winning 5 cases of beer.

August 6, 7 and 8th - Do you have the oldest or the youngest team at BNL? Submit ages (15 players) to G. DiGregory, Building 911 before August 9th to qualify for this prize - 2 cases for both young and old. More info next week.

**Mother's Get-Together A Huge Success**

By Guy Mastrion

On Friday, July 12th, forty mothers and over 150 children gathered at the Recreation Building for this year's first social. Refreshments were served by the young ladies in the program who acted as hostesses.

The gang was all there and the building was a "madhouse." It took Doug Humphrey over one-half hour to set up for his pictures. Eventually, even he lost control, but came away smiling.

Committees were formed to set up a Parents and Children's Track and Field Night on August 1st and a Family Get-Together on August 15th. An orientation was given on the purpose and activities of the BERA Morning Recreation Program. The enrollment is nearing the one-hundred mark and the children are still pouring in. The parents were also told of the four special dances to be held this summer.

True, it was a madhouse, but what else is the summer for? It was good to see people smiling, having fun and not being too serious. The worst is yet to come!

**BERA Film Series**

Thursday, July 25 - 8:00 p.m. - Lecture Hall

**Days of Thrills and Laughter**

To the film fan the early comedies of the silent era are the epitome of cinematic fun. Unfortunately, more recent American comedies fall short of the standards of these works. Therefore, it is fortunate that Robert Youngson has compiled this series of excerpts from early silent films with Charles Chaplin, Douglas Fairbanks, Laurel and Hardy, Mack Sennett, The Keystone Cops, and others. Here we see Fairbanks in a spoof of Westerns; serial queens Pearl White and Ruth Roland, and, of course, the inimitable Charles Chaplin. If you enjoy really funny films with no pretensions to sophistication or pseudo-intellectualism then by all means come, bring your friends.

**Short: The Tender Game**

The drama of two people falling in love told in abstract shapes and colors.

**Movie Tonight:**

An Evening of the Erotic and Sensual

**Classified Advertisements**

**Autos & Auto Supplies**

60 CHEVROLET BISCAINE - 4 dr, 6 cyl, auto trans, body & motor in very good cond. \$250. Tang, Ext. 2129, 744-8546.

60 RAMBLER - 20,000 on eng, 4 tires last fall, needs some work. \$100. Stephens, 744-8951.

TIRE - 8.00x15 w/w, good tread, on Buick rim, \$3; 1 pair seat belts, \$6; trailer hitch, \$5. Ext. 7552, AT6-3310 eves.

59 FORD GALAXIE - 2 dr htdp, auto trans, r/h, V8, ps, body & motor very good. \$295. Jake, Ext. 375.

26 FORD COUPE - Blk w/natural wood wheels, licensed, inspected, completely restored to mint cond. Stan, AT6-1062.

66 SIMCA - 4 dr, good cond. \$675. 929-8163.

63 VOLVO 122S - 4 dr station wagon, dk blue, luggage rack, 60,000 mi. Best reasonable offer. Warburton, Ext. 2218.

61 CHEVROLET - 6 cyl, std shift, 4 dr, white, r/h, good trans. \$285. 725-1019.

55 FORD PICKUP - J-2 Olds powered, La Salle trans, Pontiac rear, custom paint. Asking \$450. 298-8564.

61 VW - Good cond, doesn't stop at every gas station. \$275 or best offer. Olsen, Ext. 2585.

55 BUICK - Runs well. 281-3829 mornings.

58 CADILLAC (60 SPECIAL) - Blk, auto trans, body in good shape, motor in very good cond, good tires. \$285. C. Nielson, Ext. 7677.

62 COMET STATION WAGON - In running cond, body fair, carburetor needs some work. \$150. C. Bachsmith, Ext. 2821, 7734.

65 PONTIAC - 4 dr hadtp, ps/pb/pa, auto trans, a/c, extras, good cond, under 40,000 mi. \$1425. Frank, Ext. 7239.

67 MUSTANG - 2 dr hdt, V8, ps, tilt steering wheel, tinted glass, std trans. \$1850. Ann, Ext. 2180, 289-8326 after 6.

65 FORD - 4 dr, auto trans, w/w, B.U.L., white, orig owner, excel cond. \$1050. Ernie, Ext. 2934.

67 CHEVELLE MALIBU STATION WAGON - ps/pb, 327 V8, radio, mounted snow tires. Ray, Ext. 2962.

59 FORD - 4 dr sedan, 6 cyl, auto trans, good running cond. \$150. AT9-0848.

60 FORD COUNTRY SQUIRE - Excel cond, tires under guarantee. Ext. 7289, 281-3008.

61 STUDEBAKER LARK VI - 4 dr sedan, very good cond, low mileage eng. Ext. 7289, 281-3008.

63 CHEVY NOVA CONV - 6 cyl, stick shift, radio, hd shocks, Michelin radials, good cond. B. Barnes, Ext. 2393.

67 GTO - 2 dr hdt, maroon w/blk bucket seats, 335 hp, 4 spd, 18,000 mi, very good cond. Phil, Ext. 2248.

60 INTERNATIONAL "TRAVEL-ALL" - New eng, bunk & cabinet for camping, good cond. \$425. PA7-1617.

62 MERCURY MONTEREY - 4 dr, V8, auto trans, r/h, w/w. \$475. 281-6732.

66 VOLVO STATION WAGON - 4 spd, excel, immaculate. \$1890. Ext. 2543, 286-8733.

56 XK-140 JAGUAR CPE - 4 spd, wire wheels, r/h, blue. \$950. Frank, Ext. 2598.

55 CHEVROLET NOMAD STATION WAGON - Stick shift, excel cond, must sell. B. Schiff, Ext. 2143.

VW ENG - Must sell, 40 hp. B. Schiff, Ext. 2143.

PARTS - Ford Falcon, good cond, from eng, body & chassis. Cheap. J. Bennett, Ext. 7356.

40 PACKARD SEDAN - 6 cyl, excel running cond, 69,000 orig mi, rebuilt eng, new brakes. \$295. Ext. 7272.

65 VW CONV - Red, excel cond. Best offer over \$925. Paul, Ext. 2143, 281-3634.

65 ALFA ROMEO SPRINT GT - 1600 cc, metallic gray, blk int, radio Koni's good cond. Asking \$1550. Ext. 398.

59 HILLMAN SEDAN - \$200. Ext. 2853, AT6-0798.

62 FORD FALCON - 6 cyl, auto trans, motor good cond. \$250. J. Norvell, 928-0529.

59 TRIUMPH MOTORCYCLE - "Basket case," all apart, ready to be put together, 700 cc, dual carb eng. Best offer. B. McKee, Ext. 7113.

57 THUNDERBIRD - 312 cu in eng, auto trans, w/white hdt, p & brand new conv top still in carton, r/h, very good cond. \$850. B. McKee, Ext. 7113.

66 GMC TRUCK - ¾ ton, 19,000 mi w/Ravella camper, completely equipped, 6 berths, excel cond. Ext. 2853, AT6-0798.

**Boats & Marine Supplies**

80 HP MERCURY MOTOR & CONTROLS - W/6 gal gas tank. \$250. AT9-1392 after 5.

16' RAVEAU CRUISER - W/35 hp Johnson motor, very good cond, navy top. Best offer over \$500. Henry, Ext. 2872.

16' LYMAN RUNABOUT - Torre, Ext. 423.

FLYING JUNIOR - 14' fiberglass sailboat, compl w/2 suits of dacs, in water, ready to go. I. Ames, Ext. 7205, 289-3410.

SLOOP - Gil Smith 23', fibreglassed, shelter cabin, dacron main sail, excel cond. Ext. 7233.

CHRYSLER ACE MARINE ENG - 92 hp, direct drive, no manifold or carb. \$75. C. Reed, Ext. 2182.

15' FIBERGLASS BOAT - 35 hp Johnson, trailer, navy top, very good cond. \$600. John, Ext. 560.

12' RUNABOUT - 18 hp Johnson, trailer, controls, all in good cond. R. Warner, 727-5282.

8' SUNBIRD SAILING DINGHY - W/1967 3.5 hp Chrysler motor. \$200. T. MacPherson, Ext. 638, 329-5238.

18' OUTBOARD - 75 hp Johnson, sm cabin, in water, equipped. \$800. Dick, Ext. 7229, 666-8973 after 6.

14' RUNABOUT - Harters, plywood, fibreglassed. \$40. Warner, Ext. 426, 475-7025 after 6.

21' TROJAN OUTBOARD CRUISER - 2 bunks, sink, food cabinet, ice box, head, 50 hp Johnson. \$995. B. Vitale, Ext. 600.

23' CHRIS CRAFT CABIN CRUISER - 95 hp eng, 2 bunks, head, galley, etc, needs work. Less than \$1000. 289-5731.

15' MAHOG PLANK SKIFF - 15 hp motor, very seaworthy, good cond, oars, anchor & motor stand, spare prop. \$235. B. Espensen, Ext. 7638.

11' BOAT - Wood, outside covered w/epoxy, 7½ hp eng & trailer, excel to discover the islands & inlets of the bay. \$90. J. Oostens, Ext. 2985, 878-2844.

16' FIBERGLASS BOAT - 40 hp Evinrude, trailer, all accessories, like new, used 20 hrs. \$1100 firm. Tom, Ext. 2164.

15' BOSTON WHALER 1964 - 1965 Merc 35 hp re-conditioned last yr, trailer, water skis incl. \$850. Charlie, Ext. 2221.

8' DINGHY - W/oars, oarlocks, & anchor. \$36. Neil, AT6-0271.

**Miscellaneous**

100% HUMAN HAIR FALL - Custom hand made, blonde, barely used, just cleaned, 18". J. Kehlenbeck, 286-8805 after 1.

ELEC ICE CREAM FREEZER - Used once, makes 4 qts, Sears "Maid of Honor." Orig cost \$19, sell for \$10. John, Ext. 2149.

PORTABLE PIANO - Wurlitzer electronic, volume control, used w/wo earphones, bench incl, excel cond. 584-5919 after 6.

TABLE & CHAIRS - Like new, Harvest table, maple, 2 chairs & bench, formica top. \$65. Ext. 7227.

STEREO - Morse electronics, almost new, 5' cabinet, AM-FM radio, record storage, some records incl. \$150. Ext. 411.

PAIR CRYSTAL MIKES - EV951, w/DS7 Atlas stands. Orig \$72.60, now \$19.99. J.Hallock, Ext. 2480.

WHITE KITCHEN FLOOR CABINET - 2 sm drawers, bread box & storage cabinet, 30" long, 18" wide, 34" high. Ext. 7456.

CAR TOP CARRIER - New, for std size car, no suction cups. \$8. D. Christman, Ext. 7731.

PUT A LITTLE SPRING IN YOUR LIFE - This summer and next winter with a beautiful fall, light ash-blonde, extra long. Susan, Ext. 2313.

AIR COMPRESSOR - ½ hp motor, sm compressor & tank, replaced by a larger unit. \$30. Bob, Ext. 7769.

MAGNAVOX STEREO CONSOLE - No radio, excel cond. Ext. 7456.

FREE - "Studio" upright piano, needs few strings which were cut to free trapped parakeet. Healey, 281-9127.

FURNITURE - Sofa/bed, \$75; drop leaf table & chairs, \$45; desk, \$20; dressers; end tables. J. Norvell, 928-0529.

SCOOTER - Child's, little used, new cond. \$4. Benton, Ext. 2498.

TUTOR AVAILABLE - High school biology, chemistry, French & mathematics through calculus, afternoon & eves, Patchogue. 475-4038.

WOMEN'S SHOES - 8AAA Patent (Corfam) Naturalizer spectator heels, worn once. Orig price \$15, make offer. Nancy, Ext. 2335, 744-8507.

COLLIE PUPS - Sable/white females, champion blood lines, AKC. \$55. R. Burgess, Ext. 7684, 732-7649.

½ ACRE - Quiet street in Bayport, near bay, completely wooded. \$8000. 732-9384 after 5.

PHYSICS TEXTBOOK - "Symmetry in the Solid State" by Robert S. Knox and Albert Gold, 1964 edition, never used, bought by mistake. \$2. Betsy, Ext. 7552.

WASHER & DRYER - Westinghouse slant front, old but works. \$20 each. G. Schwender, Ext. 2956.

LAND - Pine St, East Moriches, 200' frontage, ¾ acre. \$3600. 878-1583 after 5:30.

MOVIE PROJECTION SCREEN - Beaded type, "Radiant," 50"x50", portable, new cond, still in carton. \$8. Ext. 7552.

PONY - Ready to ride, saddle, halter & bridle, some hay & oats. \$125. Pat, 924-8539.

GERBILS - Beautiful, friendly & clean, make excel pets. Julie, Ext. 574 after 4.

IRISH SETTER PUPS - AKC reg, champion bloodline, show potential. J. Balsamo, Ext. 600, 929-4631.

2 ACRES - 500' off Jericho Tpke on Wilson Blvd, Gordon Heights. \$6000. 732-3443.

SIAMESE KITTENS - 6 wks, Sealpoint & Blues, grand champ sire, beautiful w/delightful temp, CFA reg. M. Tainiter, Ext. 2728.

2 RABBITS - 1 white, 1 gray, cage & food. Best offer. Jerry, Ext. 7508 after 4, 475-5196 days.

CHILD'S LAWN SWING SET - \$15. Pete, Ext. 2348.

FRENCH LANGUAGE COURSE - 10 lessons, conversation manual, English-French dictionary, flash cards for vocabulary & phrase & sentences. Mac, Ext. 439.

BALLET SHOES - Size 2; tap shoes, size 2½-3; baseball shoes size 8; all used very little. Mac, Ext. 439.

BOTTLED GAS STOVE - 20" wide, used very little; Philco refig, 10 yrs old, good cond. Mac, Ext. 439.

ELEC KILN - For firing ceramic wares, 11"x11" firing chamber, some equipment incl. Mac, Ext. 439.

TENT TRAILER - Sleeps 4 adults & 1 child, canopy & extras incl. Asking \$330. Pfister, Ext. 2934.

RCA WHIRLPOOL REFRIG - 15 cu ft, \$175; 17 cu ft Admiral upright freezer, \$150; both only 1 yr old, excel cond. 281-5192.

HOTPOINT REFRIG - 1956, in good running order w/freezer on top. No set price, make an offer. Brenda, Ext. 388.

BABY THINGS - Carriage/car bed/stroller combination, 2 exp gates, infant seat, 6 apoth jars w/tray nursery design. LT9-6752.

OVEN BROILER - "Broil King," super size. \$18. Ext. 2492.

21" RCA COLOR TV SET - Old model but in very good cond, w/rare earth picture tube. \$100 firm. J. Schirmer, Ext. 7111, 2450.

BABY EQUIPMENT - Crib, carriages, infant seat, play pen, etc. Reasonable. 289-3410.

GERMAN SHEPHERD PUP - Male, AKC reg. Bob, Ext. 541, 744-9877.

8 MM MOVIE PROJECTOR - Self wind, good cond. \$15. Ext. 2543.

ETHAN ALLEN BUNK BEDS - Ladder & full length guard rail, may be used as twin beds, good cond. D.W. Potter, HR2-2262.

AKC GERMAN SHORTHAIR POINTERS - 10 wks old, champion blood line, shots & wormed. \$75. 286-3451.

LAWN MOWER - 20" rotary, 2½ hp eng, good running cond. \$10 or best offer. T. Carides, Ext. 7465, AN5-6766.

CLARINET - W/case, Preuffer, in good cond, w/Selmer Double Star mouth piece. \$40. Al, Ext. 7142, 273-5574 eves.

BED KIT FOR SAAB - Converts most sedans to comfortable bed for two, good for camping. \$5. Ext. 2888.

CONSOLE PIANO - Excel cond, beautiful tone, bench incl, used by a little old lady. Dave, Ext. 613, 928-0745.

WOODED ACRE - In Middle Island, across from Spring Lake Golf Course. G.A. Smith, Ext. 7676, YA4-6439.

GROUP OR INDIVIDUAL TUTORING - In English as a foreign language, meet at Lab, hours to be arranged. N. Walter, 744-8698 after 6.

3 GERMAN SHEPHERD PUPS - 2 mos, AKC, blk silver. Donna, Ext. 7503, 281-6920 from 6-10.

ESTEY ELEC CHORD ORGAN - 50 chords, 37 keys, 18 mos old, new cond. Orig cost \$179, asking \$100. Ralph, Ext. 481, SH4-8921.

BABY CARRIAGE - Playpen, misc seats, gates, car bed, car seat. Reasonable. 732-5945.

DRYER EXCHANGE - Our 1 yr old elec clothes dryer in excel cond, for a comparable gas dryer. 732-5945.

ELEC CAN OPENER - BVI auto start & shut-off. \$10. 732-5945.

**Houses**

2 ACRES - Middle Island, near golf course, pond site, 200' frontage. \$8000. 732-9090 days, 732-3754 nights.

BELLPORT VILLAGE - 3 bedrm colonial ranch, secluded, 2 car garage, fireplace, comb sunporch/din rm, irrigation, full basement. \$26,000. AT6-8610.

SELDEN - 1½ story cape, 7 rms, 1 block off Jericho, hw heat, well maintained. \$10,500. 732-9384 after 5 p.m.

PT JEFF STATION - 3 bedrm ranch, modern kitchen, panelled playrm, 1½ baths, attached garage, optional GI 5½ mortgage. \$16,500. JUS-7982.

MILLER PLACE - 5 rm ranch, lg enclosed porch, wooded ½ acre, city water, fireplace, full basement, oil heat. \$18,500. 744-2809.

SAYVILLE - Custom ranch, 3 bedrms, 2½ baths, walk to school, RR station, stores, 2 car heated garage, lg basement, quiet street, ½ acre. \$23,500. 589-0623.

LAUREL - 5 bedrm split ranch, fam rm, 1½ baths, att garage, full basement, s/s, h/w heat, ½ acre. \$24,000. Ext. 7692, 298-4567.

FOR SALE OR RENT - Charming, Bayview, 3 bedrms, liv rm, fam rm, furn, vacant in Aug. Oostens, Ext. 2985, 878-2844.

BELLPORT VILLAGE - Between Main St & Water, 3-4, bedrm, 1½ baths, lg din rm, laundry rm w/washer & dryer. \$16,000. AT6-9751 after 6 p.m.

PT JEFF STATION - George St near shopping ctr, 2 bedrms, liv rm, kitchen, bath, full basement, garage. 929-6180.

BAYPORT - The Bigeleisen House, quality construction, modern, in excel cond, 3 bedrms, 2 baths, fam rm, porch, workshop, 2 car carport, prime location, 1.3 acres. 472-0215.

E. PATCHOGUE - Brick Cape Cod, nice area, 4 bedrms, 1½ baths, separate din rm, all appliances, full basement, 75x220 lot. \$14,000. AT6-8517 after 5:45 p.m.

LAKE GROVE - 5 yr old hi-ranch, 6 rms, 2 baths, ½ acre, dead end street, near new shopping ctr, w/w carpeting, s/s. \$25,000. A. Doyle, JUS-2928.

BELLPORT VILLAGE - 3 bedrms, study, play rm, 1½ baths, basement, picket fenced back yard, fully landscaped. Priced for quick sale. AT6-0851.

**For Rent**

E. PATCHOGUE - Furn cottage, newly decorated, 3 rms & bath, for 1 person \$110/mo. AT9-1316.

CENTER MORICHES - 3 bedrm house, 2 baths, min lease 2 yrs, avail Sept 1, furn or unfurn. \$150/mo plus security. 878-2744.

BROOKHAVEN VILLAGE - 3 bedrm house, beautiful landscape, finished basement, enclosed porch, garage, 500' from water. Ext. 2895, AT6-8557 after 7 p.m.

SHIRLEY - 3 bedrm house, 5 yrs old, unfurn, 10 min to Lab. \$140/mo. Wang, Ext. 7776, 2411; 281-8563.

FURN ROOM - In 3 bedrm house, avail immediately \$47/mo + sm util charge. M. Strongson, Ext. 2727; L. Padwa, Ext. 2441.

PENTHOUSE APT - 3 rms furn, w/util, lease, single only. \$125/mo. 878-0214.

**Wanted**

TRADE - 4 Triple-S Blue Stamp books for like amount of Plaid Stamps to complete 3947 books for my vacation. A. Roe, 286-2280.

HARDTOP - For Sunbeam Alpine. F. Bloom, Ext. 7483.

ASBESTOS SIDING CUTTER - Ext. 7120.

GIRL'S BIKE - 20", in good cond, w/conventional seat & handle bars. Bob, Ext. 7633.

BEACH UMBRELLA - Folding, in good cond. Bob, Ext. 7633.

TYPING - Term papers, etc., to do at home. Claire, Ext. 2131, 281-9034 after 5:30 p.m.

"WALK-IN" DOLL HOUSE - For a 3 yr old who lost her father a few weeks ago. JUS-8322.

TO RENT - 2 or 3 bedrm house, in Wading River, Shoreham area, beginning May '69. Ext. 7220, 744-8689.

OUTBOARD MOTOR - Between 3 hp & 7½ hp, running or not. Reasonable. Walt, 281-3655 after 5 p.m.

BOAT TRAILER - 400 lb capacity. Ext. 2810.

HOME - For male 3 mo old kitten, white-yellow w/blk spot, blue eyes, Kitty Litter trained. W. Powell, Ext. 7676.

RIDE TO CLEVELAND, OHIO - Any weekend will be helpful, promise to be either talkative or silent companion. George, Ext. 375, 2377 eves.

GOING AWAY FOR A MONTH? - Cautious, slow-driving visiting scientist would like to rent late model car for month of Aug. N. Corngold, Ext. 7411.

WOMAN - Interested in Fashion Two Twenty cosmetics for complimentary make-up demonstration or for job opportunity. Linda, 744-5238.

SET OF RH LADIES GOLF CLUBS - For beginner. Santo, Ext. 697.

ENLARGER - M. Strongson, Ext. 2727.

HAWAIIAN STEEL GUITAR - Preferably 8 string. Rich, Ext. 2735.

VW CAMPER - G. Lindauer, Ext. 2191.

HOME - For 2 kittens, 1 all blk, 1 all red, 1 male, 1 female. Ext. 560.

PICTURES OF FACADE SHOW - Which were left in Chem Seminar Rm returned to me. Thank you. Charlie, Ext. 2221.

TO RENT - Furn house, Brookhaven-Patchogue area, 3-4 bedrms, for scientist visiting 9 Sept for 1 yr. Ext. 2853, AT6-0798.

HOME - 5 kittens need a home, take all or 1, they're no trouble to care for. Ext. 456.

MICROSCOPE - Needed for Medical School. R. Ryals, Ext. 2923, 2832.

**Carpools**

CARPOLS WANTED - From Plainview vicinity, 8:30-5. Dave, Ext. 2970.

EAST ISLIP - Would like to join or form carpool. Ext. 2524.

NEED A RIDE - For 2 summer employees to and from Wading River. Ext. 2808.

**Lost & Found**

FOUND - Man's Timex watch, in Gym vicinity. Ext. 2808.

**Classified Ad Policy**

**Deadline is 12 noon Friday for publication the following Thursday.**

- The Bulletin Board'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.
- Persons listing houses, apartments, or rooms for sale or rent, do so with the understanding that these must be available without regard to race, creed, color, or national origin.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Ads should be restricted to 20 words or less and typed

- or printed on the form provided, and must bear the employees signature.
- 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.
- Firearms offered for sale or trade may not be brought on site.

For Sale: Auto & Auto Supplies       For Sale: Houses       Carpools  
 For Sale: Boats & Marine Supplies       For Rent       Check  the heading applying to your ad.  
 For Sale: Miscellaneous       Wanted       Print or type your ad in 20 words or less.