

the Bulletin Board

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OCTOBER 3, 1961

HURRICANE ESTHER

"Esther" proved once again that hurricanes are most unpredictable. It was first observed approximately 1200 miles ESE of Puerto Rico on September 14th, and followed a normal hurricane track toward the U.S. mainland. By midnight of September 19th, the eye was located 120 miles SE of Cape Hatteras and during the early morning hours it started to recurve toward the NNE on a path that would bypass Long Island. Everyone expected a continued movement toward the NNE, but Esther reached a point between Block Island and Nantucket and either stalled or completed a small loop, causing continued high winds and heavy rain over Long Island throughout Thursday, September 21st. As a further meteorological insult, Esther proceeded toward the ESE during the following 24 hours, and finally made a complete circle 300 miles in diameter, again causing rain in the Brookhaven area on the 25th.

We were indeed fortunate that the storm was actually dissipating while off the eastern tip of Long Island. Meteorology Group records show that the peak intensity of the storm occurred between 0600 and 0800 A.M. on the 21st, with the winds reaching a gust of 94 mph from the NNE at 355 ft. above ground approximately at 0730 and at almost the same time, a peak of 62 mph was observed 37 ft. above the ground. Rainfall totalled 4.42 inches for the 24 hour period ending at 1800 on the 21st, and another 0.56 inches fell on the 25th. The total was approximately the same as the rainfall observed with Hurricane Donna in September of last year (4.64 inches). The lowest pressure recorded on the Brookhaven barograph was only 29.255 inches compared to 28.375 inches recorded during Donna last year.

Esther was actually a mild hurricane with peak winds far less than the 125 mph of Carol (1954) and the estimated 150 mph peaks associated with the 1938 hurricane, but "Esther" was by far the most interesting - and humbling.

NUCLEAR FALLOUT SURVIVAL INFORMATION

To receive Civil Defence information on Nuclear Fallout Survival complete this coupon and mail to C. Distenfeld, Building 901.

NAME

BUILDING NO.

MICROBES, MICE AND MONKEYS

New York Times.

LATE CITY EDITION

SOVIET PUTS UP A 2D ASTRONAUT:
HE EATS, NAPS AND RADIOS DATA
IN CONTINUOUS ORBITS OF EARTH

U. S. GOAL IS 1962

7 Tests Are Planned
Before an Attempt
at Orbital Flight



PLANNED TEST ON TV

Continued Every
68 Minutes in Test
of Space Risks



"So what, my brother Sam did it months ago."

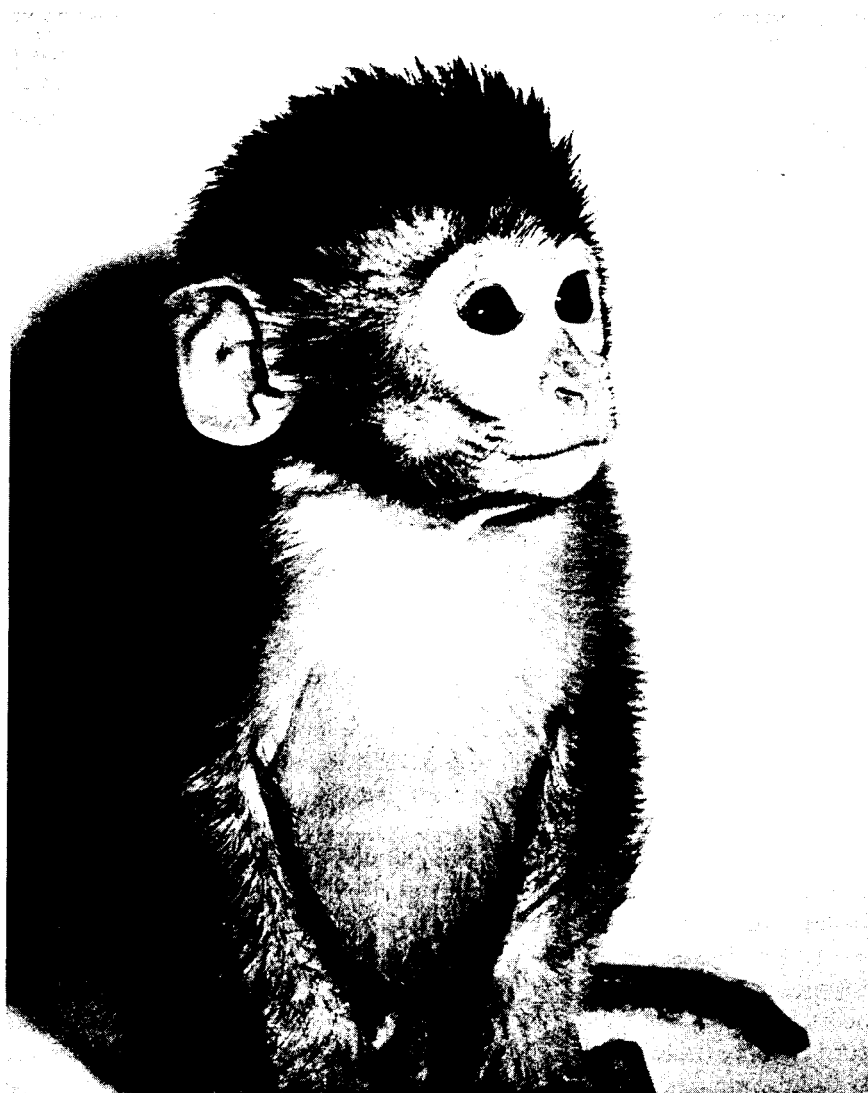
From microbes to mice to monkeys the Biology Department maintains a menagerie that would do credit to Noah's Ark. In the biologists' search for further knowledge of basic life processes and their modification by radiation, it is necessary to use a wide variety of living organisms as experimental subjects. While many of these subjects are unusual, perhaps none are more interesting and humorous than the Rhesus monkey (*Macaca mulatta*), presently being used for studies of the effects of ionizing radiation on the central nervous system. Because of their similarity to man, these animals are ideal subjects for bio-medical research. The present studies at Brookhaven are for the purpose of learning more about the mechanism of damage to the brain and spinal cord by x-ray doses comparable to those used in radiation therapy of humans.

Baby monkeys obtained from Columbia Medical Center are first studied for several months to assure that they are normal and healthy. These observations include not only general health examinations, but also analyses of brain wave or electroencephalograph (EEG) patterns. After it has been shown that the monkeys are normal and healthy, they are exposed to x-rays directed at limited portions of the brain and spinal cord. Each week collaborating scientists from Columbia Medical Center visit Brookhaven to assist in making further brain wave recordings on the head-irradiated monkeys. Within three months, definite changes are seen in the monkeys' behavior and EEG pattern. To study these changes and their effects in greater detail, moving pictures are taken at regular intervals to compare behavior changes with EEG changes. Other animals, in which the spines were irradiated, did not show any effects until 6 to 9 months following irradiation. At that time, they began to show some signs of weakness in the hind legs and also difficulty in moving about. This is similar to the effects seen in humans whose spinal cords have been exposed to high doses of radiation for therapeutic purposes.

As a final means of measuring the radiation damage to the central nervous system, all monkeys are examined in great detail after their death for microscopic evidence of radiation injury. Through correlation of the information gained from these several techniques, more detailed knowledge is obtained concerning the radiation sensitivity of the brain and spinal cord. This information may then be applied in the safe treatment of humans requiring radiation therapy.

(Continued on Page 2)

Microbes, Mice and Monkeys — Cont'd.



"But Doctor, I do brush after every meal."

Although this type of research is being done with smaller and less expensive animal, it is through the use of the human-like monkeys that the most meaningful results may be obtained.

BERA FILM SERIES

The Quiet one and Laughing Gravy

OCTOBER 5 — LECTURE HALL — 8:30 p.m.

Because of the conflict which exists with the Pegram Lectures, the feature film "The Quiet One" will be shown twice to permit those who attend the lectures to also see a complete show at the Lecture Hall.

TIME SCHEDULE

8:30 PM — THE QUIET ONE

9:45 PM — LAUGHING GRAVY

10:10 PM — THE QUIET ONE

The Quiet One

A genuine masterpiece of documentary drama, "The Quiet One" tells the

story of a boy scarred with the indifference and rejection of his parents. Withdrawn into a state of shame and loneliness, he is sent to the famed Weltwyck School for treatment. There, under the guidance of a psychiatrist and counselor, he is slowly brought into the realization of his attitude and the actualities of a more normal life. The approach and handling is similar to De Sica and the Italian neo-realist films.

Laughing Gravy

One of the best Laurel and Hardy comedies, this program-booster starts with a hiccup in the night and ends with a series of inexorable and uproarious destructions that leave suburbia a shambles.

BNL GATES

West Gate - Some minor rearrangements are being made at the West Gate. No interference with present traffic flow is expected. When completed in about two months the traffic flow through the gate will be improved.

North Gate - A paved cross-over to the northbound lane of the Parkway is being constructed. Upon completion, in addition to serving as an emergency exit, the North Gate will normally be opened for half an hour each afternoon for outgoing traffic.

Changes in gate usage and procedure will be announced when the alterations are completed.

THEATRE GROUP MEETING

Wednesday, October 11; 8:30 P.M.

RECREATION HALL (in Apartment Area)

First meeting of the new season to discuss future plans, and the new year.

NIMRODS ARCHERY CLUB

Do you like the great outdoors? Do you like to stalk a target in the high grass?

If you do, the outdoor archery range is open every Wednesday at 5:15 P.M. until dark. Come out and practice for the big Turkey Shoot, which will be held on Monday, November 20. Watch the BULLETIN BOARD for future announcements.

The regular monthly meeting will be held on the first Monday of each month beginning November 6th.

For more information call Al Delph X 439 or Frank Humphry X 451.

FIRE PREVENTION WEEK
OCTOBER 8-14, 1961

The week October 8-14, 1961, the anniversary of the disastrous October 1871 Chicago fire, has been designated as National Fire Prevention Week — a time to check your home to make sure that fire hazards are eliminated.

Fire strikes an average of 800 homes each day, and an average of 31 persons die each and every day of the year as a result of fires in the United States. One in every four of these fires is caused by careless smokers.

Start now to eliminate those conditions and practices which can cause a fire. Inspect your home from cellar to attic and get rid of those hazards which might cause a fire. Make sure each member of your family knows what to do in case of fire.

STOP FIRES AND SAVE LIVES!

— Fire Chief WALTER F. SCHMELZ



BERA BOWLING

GREEN LEAGUE: The Green League started off the 1961-62 season without the Male-Stars (replaced by the Gnats). The Old Timers reorganized their teams. This leaves our league without defending champs. The Black Birds were nosed out by the Electrons 3 to 1. The Fire Dept. rumped the New Comers 4 to 0. The Old Timers II bent the Old Timers I 3 to 1 and the Old Timers III dumped the Reefers 4 to 0 who started their season with three men. Getting off to a good start were T. Holmquist with a 214/540, M Kinney 189/535, J. Rhodes 189/528 and B. Dvorak 198/503.

BLUE LEAGUE: The Blue League started off this week with its usual trend of bowling with two new teams added this year. Nobody seemed to start off with a bang. Here's how the teams lined up for the first week.

The Alleygators managed to squeeze four points from the Bubble Boys. Watson had a 174 while the loser had Frantz with a 171.

The Leftovers had an easy night as the Bubble Finks did not even make a showing thus forfeiting four points.

The Splitters with the same five seemed to have uprooted the Techs the first night as they took them three to one. Nat Carter had a 180, Sal Saparcino 177/499 while the losers had Larsen with a 185 and Hildenbrand a 177.

The Skins took the Sleepers three to one. Phil Borzi had a 183 while Bugala had 173. For the sleepers, Streeter had a 169.

The Needlers and the Nuclides were fighting back to back as they split two to two. Kukacka had a 166 while Stan Majeski came up with a 180.

MASTER POINT GAME WINNERS

The monthly master point game of the Brookhaven Duplicate Bridge Club was won by Mr. & Mrs. Morton Sternheim (N-S) with a tie for first (E-W) between the pairs of Hazel Williams - A. Aitchison and G. Czapski - Harold Schwartz.

Others in the money were:

N-S

2/3 Mr. & Mrs. Bob Dvorak
2/3 Les Lawrence & Sandy Wagner

E-W

3 Lois Jones & Mary Kinsley

The next game will be on the 12th, with the full master point game on the 26th.

NEW YORK STRING SEXTET



NEW YORK STRING SEXTET — OCTOBER 9th

The 1961-62 BERA Concert Series will open Monday evening, October 9th. The New York String Sextet will appear. This ensemble, comprised of Renato Bonacini and Kees Kooper, violinists, Paul Doktor and Clifford Richter, violists, and Janos Scholz and George Koutzen, cellists, has now joined the ranks of America's most distinguished chamber music groups. It is the first permanent ensemble formed for the specific purpose of presenting the string quintet and sextet literature in well-integrated, thoroughly rehearsed performances. The New York Times has written: "The tone of the six instruments is rich, full-textured, mellow, and cohesive, the group's playing has fire and excitement". Other critics have written in similar vein.

The program will include two of the greatest quintets in the literature: The Quintet in G Minor, K. 516 by Mozart, and the Quintet in C Major, Op. 163 by Schubert.

Series tickets are on sale through the following department representatives, or at the first concert, at \$7.50 (adult) and \$2.50 (children and high school students). Single admissions at \$3.00 (adult) and \$0.75 (children) will also be sold at the concert.

Please note that the concert series this season will be held at the **Brookhaven Center**.

DEPARTMENT TICKET SELLERS:

Nuc. Eng.	R. SHER
Chemistry	H. SCHWARZ
Hot Lab	M. HILLMAN
Applied Math.	J. PINCUS
Biology	J. STANGBY
Medical	MRS. WEYNAND
Physics	PAT TOWEY
Reactor	JEANE BALDWIN
AGS	MARY SEMERJIAN
Recreation	GEORGE SABINE
Administration	D. SCHROEDER
Personnel	M. CLASEN
Van de Graaff	D. ALBURGER

SPECIAL CONCERT BUFFET SUPPER

The Brookhaven Center will serve a special Concert Supper from 6:00 to 8:00 P.M. for the convenience of those attending the BERA concert presenting The New York String Sextet beginning at 8:30 P.M. on October 9th. The price of the supper will be \$2.50.

Reservations are necessary and must be made in advance not later than 5:00 P.M. on Monday October 9th. Call Ext. 2302 or 2453.

Refreshments will be available at the Center during the concert intermissions and after the concert.

UPTON RIFLE & PISTOL CLUB**Pistol Club:**

Pistol shooting is taking place every Tuesday at 5:00 P.M. at the Lab range. Free .22 ammunition and targets are provided for the 25 yard range. Get in form for the Winter East End League. All Pistol Club members are invited.

Clyde McClelland topped last week's shoot with a very good 277. J. Diener had a 266 and J. Rutherford a 244.

Rifle Club:

At the September meeting the following trophies were awarded:

Small Bore Rifle Tournament

- 1st - Al Lukas - 229, possible 250
- 2nd - Roy Domish - 224
- 3rd - Judd Diener - 214

Large Bore Rifle Tournament

- 1st - Pete Colombo - 188.5, possible 200
- 2nd - Julius Diener - 188.25
- 3rd - Roy Domish - 186

The Club will hold its monthly meeting at the Recreation Hall on Thursday, October 5th at 8:00 P.M. There will be an election of officers and also a discussion of the Large Bore Rifle Tournament which is to take place on October 22, 29, and November 5. All those interested in large bore shooting contact Al Lukas, Ext. 769.

BNL FOLK DANCE GROUP

The Brookhaven Folk Dance Group will resume its regular program of dances on Monday, October 16, at 8 P.M. in the Recreation Hall. Dances will be held thereafter every Monday night throughout the fall. Anyone with an interest in folk dancing, regardless of experience, is welcome. For the benefit of beginners, elementary instructions will be given on the first few evenings. New dancers are urged to come regularly to each session if possible.

BROOKHAVEN DIVERS CLUB

Monday, October 9th, at 7:30 P.M.

During the off-season, Divers Club activities turn from the great outdoors to indoor sessions to keep fit during the off-season. The club is also making arrangements for the annual Open House which enables non-members to become acquainted with club activities and provides the opportunity to try out Scuba diving under the direction of experienced divers. The fourth annual Divers Class will be organized later in the year.

FREE DIP

October 10 - 7:00 P.M.

Tuesday evening at 7:00 P.M. you and the family are our guests at the Swimming Pool! Why? Well, it's opening night of the fall-winter season schedule, and we want you to come out, have a good time and maybe decide to come again.

CLASSIFIED ADS**FOR SALE**

1960 CHEV. IMPALA - ivory & black, P. Glide, r&h, w.w., gd. cond. Ext. 481, Joe, GR 5-4383, evenings.

1959 VOLKSWAGEN - Radio, whitewalls, black. Reasonable. LT 9-4871 after 6:30 P.M.

1951 OLDSMOBILE - 4 dr., auto trans., r&h, gd. tires, excell. cond. \$195 firm. J. Jach, Ext. 634.

1951 FORD V-8 - Tudor std. trans. Gd. cond. GR 5-5894.

1949 CHEV - 2 dr., gd. mech. cond., Owner leaving country. Asking \$60. K. Imai, Ext. 454

1955 GREEN CHEV. - two dr., two new front tires, does not burn oil, gd. gas mi. Asking \$455. 1961 Jeep (good for beach buggy) or snow plow. Asking \$2000. G. Hambley, Ext. 481.

5 BEDROOM CAPE - 2 full baths, liv. rm, dining rm., kitchen, full cellar. Port Jefferson Area. \$13,990. HR 3-9132.

MODERN 3 BEDROOM CUSTOM BUILT RANCH HOUSE - Located on ¾ acre in the Village of Shoreham. Complete for \$22,500. SH 4-3401.

3 BEDROOM CUSTOM RANCH - 2 full baths, full basement with outside entrance, fireplace, large plot, refrig., washing machine, oil-hot water heat, quiet, street in Brookhaven, 15 min. from Lab., \$19,500. AT 6-1262.

CAPE COD HOUSE - Shoreham, 4 bedrms, 2 full baths, finished attic, full rear dormer, 95' x 125' fenced plot, 1½ car garage, finished basement with outside entrance to 16 x 30 ft. concrete patio. Many extras. 4½% G.I. Mort. Sacrifice \$15,900. Ralph, Ext. 481 or SH 4-9921.

HOUSE FOR SALE OR RENT - Centereach, Cape Cod Style, six spacious rooms, full basement, oil heat, one and a half bath, plot 80' x 120'. GR 5-7494.

ALUMINUM EXTENSION LADDER - 32 ft., \$30. Delta Table Saw, 8" circular saw with extension grinder, Dada Head. Extra blade, \$45. Simplicity Garden Tractor with Shuttle Bar Cutter, \$150. D. Meehan, Ext. 2398 or WA 9-4822.

RANGE - combination oil & gas, porcelain white, with oil level and 250 gal. fuel tank. Very good cond., also kitchen set. LT 9-3679.

HOUSE FULL OF FURNITURE - living room, dining room, bedroom, kitchen sets, owner will sell piece by piece or whole sets - owner leaving lab. Mitra, Ext. 2505.

GAS STOVE - 30 in., Deluxe model, ex. cond., \$50. SH 4-9085 or Ext. 301.

FULL SIZE 4½" FOAM RUBBER MATTRESS - and matching box springs. Like new. E. Raka, Ext. 310.

12 IN. WOOFER - 30 watt-2 lb. Alnico Magnet. 2 in. voice coil. For stereo- high compliance dual voice coil, 8 ohms. for mono 4-8-16 ohms. With dual crossover network (350 cycles) and instructions to use as center fill for stereo. Ext. 423.

GLENWOOD COMB. - Oil and bottled gas range with oven and broiler. In good cond. complete with constant level valve, \$40.00. AT 6-1207.

1 KITCHEN SINK - with faucets and spray, RIX 31 single bowl. \$7.00, excell. condition. 1 crib with mattress, excell. cond., \$15. 1 Camra Waltax 620 film shutterspeed 1-500 color corrected. 3.5 lens with leather case. \$25.00 or best offer. R. Sollanek, Ext. 311 or LT 9-5469.

BEDROOM SET - Mahogany, in ex. cond., \$1200 new, reduced to \$300. Torch Lamp \$5., two snow tires on rims, Wh. Wall, 7:50/14 used one season \$40; 24 inch girl's bike \$12. G. Munoz, Ext. 393 or JU 7-0711.

SPEAR-TONE 4 SPEED AUTO. PORT. RECORD PLAYER - In excellent cond. \$25., Dotty, Ext. 2458.

FOR RENT

3 BEDROOM HOUSE - modern, fireplace, water view. 9 miles from Lab. Levine, Ext. 464.

FOUND

TIMEX WRIST WATCH - Call Personnel Services, Ext. 2106.

MAN'S GREEN JACKET - in Library. Call Personnel Services, Ext. 2106.

WANTED

CEMENT MIXER - Levine, Ext. 464.

CHILDREN'S PLAYGROUND SLIDE - used. Levant, Ext. 776.

CAR POOLS

Want to form car pool to Hofstra on Monday and Wednesday evenings. Leave from Smithtown area. Lenny Newman, Ext. 2149.

Established car pool of three drivers wants one to three drivers. Route is So. Ocean Ave. and No. Ocean Ave., Patchogue. Merger with existing car pool also considered. Ext. 2464.

Want to join car pool or get rides to lab. Live in area south of Swan Bake Shop. East Patchogue. J. Tillinger, Ext. 542.

Want one person for two man car pool. Blue Point Ave. and Middle Rd., Blue Point. J. Shaber, Ext. 2380.

Ride wanted to Adelphi, Friday evenings, any time. M. Plotkin, Ext. 310.

Car Pool wanted from Patchogue Shores, East Patchogue area. S. Protter, Ext. 693.

Ride wanted from BNL to Smithtown. Vets Highway and Route 111, 2 nights per week. Poulson. Ext. 561.