

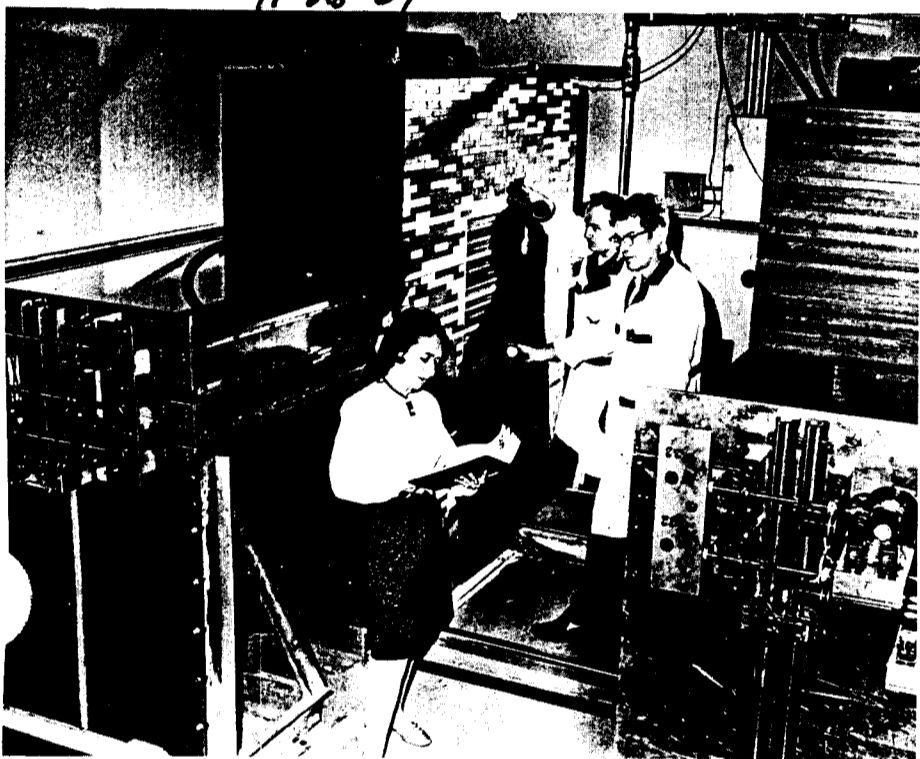
BULLETIN BOARD

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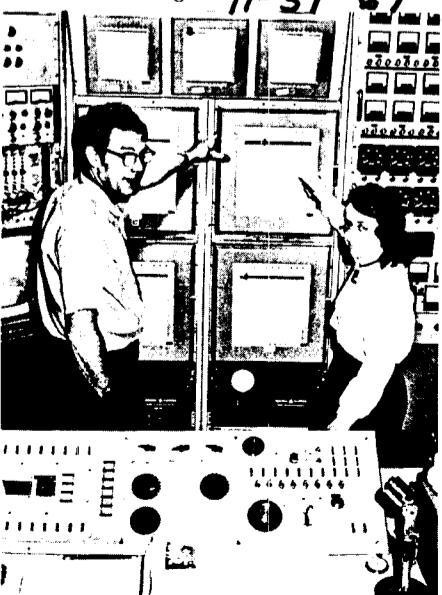
FS-1 with the halves separated and the core exposed. Anita Court (left) takes down data as Bob Sick (center) and Ken Downes (right) measure area of core.

—Photos by Walton

FS-1 Undergoes Critical Checkout

On Halloween Eve, when the goblins and ragamuffins were getting their costumes ready for an evening of Trick or Treat, the atmosphere in the control room of the FS-1 reactor was tense. At 3 p.m. an announcement had gone out over the PA system in the Critical Assembly Facility, "FS-1 is approaching criticality." The halves of the reactor were brought together, and the control rods were placed in position.

"FS-1 has achieved criticality" was the announcement at 3:11 that brought the staff of the facility into the control room for a celebration. Ken Downes, in charge of the project, and Anita Court, were jubilant as they surveyed the instrumentation that showed FS-1 to be performing as planned in a self-sustaining chain reaction.



Ken Downes and Anita Court, in charge of FS-1 project, point out simplicity of the console and instrumentation.

The week before Halloween had been devoted to the laborious task of loading the reactor according to a prescribed plan. It was necessary to take 36 steps towards the goal of criticality before the core was complete. The loading of the final 5 pounds at the step before criticality brought the total of U-235 up to 350 pounds.

A year ago this summer the project was initiated, and Ken Downes and Anita Court were asked to do the job of building a fast source reactor that could be used to investigate the general characteristics of all fast reactors.

"Thermal power reactors are here," said Ken Downes, "The next generation of power reactors is going to be fast reactors. People don't understand the physics that go with them yet. This reactor is built for the purpose of finding out what we can do about fast reactors."

FS-1 is not a large reactor although it weighs 38 tons. The core is built up of 29 layers of U-235 alternating with layers of graphite, surrounded by a minimum of 18 inches of steel on each side. A radium-beryllium source is located under the center of the core. In this reactor, control rods of U-235 are withdrawn for shutdown.

The reactor is built in two halves. One half is fixed, and the other half moves on steel tracks allowing a separation of four feet between the parts. In the event of a power failure the parts held together for operation by an electrical drive will separate by gravity.

When the halves are separated, the experimenters can work on the core of the reactor, and change the configuration of the core without any elaborate equipment. All of the auxiliary equipment of the reactor, the control rod drive, and the main drive for the movable half, is in small scale and is neatly and compactly arranged.

Compared to the 20 megawatts of the Brookhaven Graphite Research Reactor, the power output of FS-1 is minuscule. Although the maximum is about 1 kw, the

(Continued on page 2)

Brookhaven/Facade

An original musical revue covering the history of Camp Upton-Brookhaven Lab, from Yip Yip Yaphank to Born Yesterday, and from General Emery Upton to Dr. Maurice Goldhaber will be presented in March of 1968 in celebration of BNL's 21st birthday.

The pile of rejected dialog and lyrics is already impressive as the research team has been unearthing interesting, historical, and pre-historical material relating to the Laboratory. More writers are needed to supply ideas for sketches or musical numbers.

Ron Peierls would like to hear from anyone in the Lab who would be interested in helping with this project. Writers, researchers, performers and back-stage helpers are needed. If you would like to join in the fun of making this Lab-wide effort a success, please call Ron on Extension 7652.

Eating Facilities

The Brookhaven Center will be closed on Thursday and Friday, November 23 and 24. The Snack Bar in the cafeteria will be open from 9 a.m. until 2 p.m. Thursday through Sunday.

Girls Find Out

What It's All About

Thirty-two of the newest members of the BNL secretarial staff attended an informal Office Practices Seminar held in the Exhibit Hall on November 14, 15, and 16. Talks were given by the heads of Fiscal, Purchasing, S & M, Graphic Arts, Staff Services, Systems & Administrative Data Processing and Personnel to explain the functions of these Divisions. An IBM representative spent Thursday afternoon with the seminar members explaining the latest tricks of the secretarial trade. The 'question and answer' periods solved many of the mysteries involving Laboratory protocol. Not to be forgotten was the Get-Together Coffee which transformed telephone voices into real people.



Hero Awarded Bronze Star

On October 7, it was announced by Col. Charles A. Jackson, Chief of Staff, Headquarters, 4th Infantry Division, that First Lt. Robert H. Gardner was awarded the Bronze Star Medal for Heroism "in connection with military operations against hostile force in the Republic of Vietnam on 11 May 1967."

Son of Harold Gardner of the S&M Division, Lt. Gardner, while serving as Platoon Leader on a search and destroy mission, despite heavy hostile fire, left his vehicle and approached an enemy position on foot. He successfully engaged a Viet Cong from a distance of five feet. He then personally searched the area and "led his platoon in a mounted sweep which resulted in the destruction of a substantial portion of the Viet Cong force and the capture of a variety of enemy weapons."

The Bronze Star is the second award to be given to Lt. Gardner. Last July he was awarded the Purple Heart for wounds received in action on May 4. An Army release describing the action in Quang Ngai reads in part that "elements of the 3rd Brigade 25th Division and units of the 1st Cavalry division drove against heavy mortar fire to clear the Viet Cong from a small village in Quang Ngai province.

"Five Armored Personnel Carriers (APCs) under the command of Lt. Robert Gardner of Patchogue, crossed rice paddies to chase the Communists who were believed to be part of the Third Viet Cong Division."

Lt. Gardner is a graduate of Patchogue High School and St. Lawrence University. While at St. Lawrence, he worked summers in the BNL Mail Room. Gardner has been in Vietnam since January 1967.



Left to right: Irene Rosati of Biology, Carol Godfrey of Staff Services, and Nancy Mayeski of Plant Engineering and Planning.

Photos by Humphrey

Newcomers Tea A Colorful Success 11-239-67



The Semi-Annual Newcomers Tea, presented by the Hospitality Committee, under the Chairmanship of Mrs. Norma Chernick, was held in the Brookhaven Center on Wednesday, November 8.

The international theme for the party was outstandingly presented by the decorations committee consisting of Suzanne Mughabghab, Gloria Thieberger, Bea Kohler, Dot Marelli, Terry Pettinger and Shiela Lancefield. The many exhibits displayed items from more than fifteen different countries.

Hostesses who served the many delicious hors d'oeuvres that went with the tea and sherry were: Ilya Frazer, Natalie Paige, Margaret Cool, Phyllis Shreeve and many of the area Chairladies, and Co-Chairladies.

At the conclusion of the party, many of the husbands stayed to help dismantle the decorations and return the exhibits. Mrs. Chernick, who described the party as "A smashing success," thanked all who helped in any way.

Left to right, Gloria Thieberger (Area Chairlady for Site), Beatrice Kohler (BNL Representative), Norma Chernick (Chairlady of Hospitality Committee) and Suzanne Mughabghab (Area Chairlady for Site). Photos by Walton 11-230-67



Noriko Kubo, Lillian Jellinger and Margaret Williams looking at "Gardens of Japan."



Lovely representatives of Japan include, left to right, Kazuko Hoshi, Yoshiko Takahashi, Masako Okuyama, Noriko Kubo, Norma Chernick, Ikuko Kemmochi, and Akiko Shibata.

PO Boxes Available

The U.S. Post Office, Building 179, 2 Center Street, has post office boxes for monthly rental. The fee is 30¢ a month, and application for these boxes is made at the Post Office.

* * *

It has been said of conference goers: 90% are looking for the holy grail; eight percent wouldn't know what to do with it if they found it; and two percent, the skilled vaudeville troupe on the speakers' side of the table, know it doesn't exist.

P.E.P. Changes

It has just been announced by M.M. Small, Head of Plant Engineering and Planning, that, effective November 1, Silvio Bello has been promoted to General Foreman in charge of Grounds, Roads and Sanitation. In Bello's absence, Herman Haller will take charge of these functions.

Robert Mulcahy as General Foreman is in charge of the Heavy Equipment and Riggers. In his absence, Angelo Didio will be in charge of these functions.

Here and There

Dolores del Castillo

N.P. Samios (Physics) will give an invited talk at the American Physical Society meeting to be held in New York City on November 18. The title of his talk will be "Meson Resonances."

Olaf Skjeggstad (Physics) will attend the American Physical Society Meeting.

Mark Sakitt (Physics) will give a seminar at Princeton University on November 27. The title of the seminar is "Leptonic Decays of Neutral Kaons."

Robert Lehn (Central Shops) has just returned from a trip to Los Alamos, Lawrence and Argonne where he had discussions on the shop facilities.

S. J. Lindenbaum (Physics) will present an invited paper entitled "On-line Data Analysis for High Energy Experiments" at the New York APS meeting this week.

Seminars entitled "Protein Structure" were given by Joseph D. Yournon (Biology) at Oberlin College, November 8, and at Marquette University on November 11.

Arnold Sparrow and Lloyd Schairer (Biology) participated in a recent NASA Biosatellite Experimenters meeting held at Ames Research Center, Moffett Field, California.

Paul Andries DeJonghe of CEN, Mol, will visit the Laboratory on November 22 for discussions on fuel reprocessing.

Wolfgang Otto Schikarski of the Nuclear Research Center in Karlsruhe will visit the Laboratory November 21-22 to discuss fission product release and transport under accident conditions.

Thomas V. Sheehan (NED) is presently in Pittsburgh participating in the ASME meeting, November 12-17.

O.E. Dwyer (NED) will be in Pittsburgh on November 17 attending a meeting of the Visiting Committee of the Chemical Engineering Department of the Carnegie Mellon Institute.

John Chen (NED) will attend the AICHE Winter Annual meeting being held in Pittsburgh this week.

Joel D. Pincus (Applied Math) will lecture at Stevens Institute in Hoboken on November 17. The lecture is entitled "A Theory of Wiener-Hopf Problems."

George M. Woodwell (Biology) was appointed a Member of the Advisory Committee of the State University and Technical College at Farmingdale.

Product Exhibit

The Precision Instrument Components Company (PIC) will be on site today, November 16, to show their latest precision instrument parts and components available from stock. The van will be parked at Building 923 (the Alternating Gradient Synchrotron) from 10 a.m. throughout the day.

BERA Concert Series 1967-1968

This seasons' concert series promises to be one of the most exciting series given at the Lab. There will be six concerts included in the series which will extend from October until March. Season tickets will be available early in September from ticket sellers in each department. The concerts take place at the Brookhaven Center at 8:30 p.m. Refreshments are served in the Center following each concert.

The concerts included in the series are:

- Pasquier Trio.....December 5
- Oscar Ghiglia (guitar).....January 25
- Evelyn Crochet (piano).....February 27
- Early Music Quartet.....March 21

BULLETIN BOARD

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NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Dear Sir:

I would like to bring out a gripe against Lizza Bros. They tore up the road on Wm. Floyd Parkway by the new Expressway and patched up said road; now there are three beautiful bumps going south and 2 coming north.

Can something be done to have this hazard removed?

Many N/S Travelers

Arrivals & Departures

Arrivals

- Jack R. Davis.....Medical
- Valerie M. Johnson.....Medical
- Robert J. Warkentien.....Accelerator
- Catherine C. White.....Applied Math.

Departures

- Richard L. Cassel.....Accelerator
- Carol A. Czernik.....Biology
- Virginia F. Kuzloski.....Medical
- Suzanne Ogden.....Nucl. Engrg.
- Jane F. Scotto.....Physics

Service Awards - Nov. 1967

Twenty Year

- Smith, Robert F.....Photog. & G.A.
- Reed, Clive E.....Mech. Engr.
- Roman, Paul W.....Instr. & H.P.

Ten Year

- Andrisani, Patsy A.....Supp. & Mat.
- Buchanan, Mary Ellen.....Staff Svcs.
- Carde, Stanford E.....Plant E. & P
- Cizek, John W.....Plant E. & P
- Davis, Mabel R.....Medical
- Leahy, Daniel F.....Nuc. Engr.
- Paffrath, Frederick W.....Physics
- Phelps, James P.....Nuc. Engr.
- Schneider, Otto.....Instr. & H.P.
- Wright, Ruth V.....Biology

FS-1 Debuts (continued)

reactor will generally be operated at about one watt. Power is kept low in order to keep down residual radiation.

The reactor took six months to build at the Critical Assembly Facility on North Sixth Street. Bob Sick and Warren Budd did most of the machining of the parts and were helped by James Amaro, Ding Verschuure, Anton Worytko, Mike Degen, Arthur Stoll and Joseph Titmus. Electronic work was done by Alex Sabosto, Walter Furman and Fred Truman.

Herbert Kouts, Head of the Experimental Section of the Reactor Physics Division of NED, and Joe Hendrie, presently Associate Head of the Engineering Division of NED, both express their pleasure at the successful culmination of the construction and startup of FS-1.

Born Yesterday - Tomorrow Night *No Neg. No*



A Review . . .

Born Yesterday is a comedy with lots of laughs, even though it is based on a morality theme. The protagonists are a rough and ready, rich junkman, and a reporter. The junkman believes everyone, including a U.S. Senator, has his price. The reporter upholds the cause of the everyday citizen and believes in a fair shake for everybody, even those who don't care. In between, or rather, first on one side and then the other, is Washington, D.C.'s Fair Lady, otherwise known as Billy Dawn.

There are more than enough laughs to satisfy everyone in this play, where all of the action takes place in a \$235 a day hotel suite in Washington, D.C. The first two acts run about fifty minutes each, but seem like thirty. Each started out slow, but quickly moved into high gear and stayed there. The third act is short and full of fast moving action all the way.

It was evening and the sun had long set over BNL when Elaine Friedman walked on stage, but you knew the Dawn had come. Charlie Zavesky as Harry Brock, the junkman, and Graham Campbell as Paul Verrall, the reporter, following the Dawn, were like "it's great to get up in the morning."

William Getman as Ed Devery, the lawyer, and J. Anthony Nardi as Senator Hedges were also great. In my opinion, the entire cast was excellent, and I wish there were space to mention each.

Produced by Gerhart Friedlander and Kathleen McLinsky, and directed by W. Scott Andrus, with Roberta Klimaski as his assistant, I can only say that if you miss Born Yesterday, you must have been.

—N. J.D.

Tickets for Born Yesterday

Good seats are still available for both of the remaining performances of Born Yesterday. You can get them at the Recreation Office from 9 until 1 and at the Cafeteria from 12 until 1, or at the Box Office on the evenings of the performances.

Leagues to Start Soon

BNL men's volleyball and basketball leagues are taking shape, and will soon get their seasons underway. The volleyball action will begin November 28th, and the basketball season on December 7th.

If you haven't yet signed up, get on the ball and call the Recreation Office, Ext. 391. Registration deadlines are coming up soon.

Christmas Is Coming

The Brookhaven Center will be bursting with Christmas cheer next month. The party dates have been drawn, and the Center's schedule is full. Noel festivities will begin on December 8 and will keep going 'til December 21 with the following parties: Director's Office.....Friday, the 8th
Staff Services.....Saturday, the 9th
Physics.....Thursday, the 14th
Biology.....Friday, the 15th
AEC.....Saturday, the 16th
Nuclear Engineering.....Tuesday, the 19th
Applied Math.....Wednesday, the 20th
Chemistry.....Thursday, the 21st

The Bubble Chamber party will be held in the gymnasium, but as yet no date has been decided on.

May the staff of the *Bulletin Board* be the first to wish you all a Merry Christmas.

BERA Dance

The decorating committee is planning the transformation of the gymnasium into a winter wonderland for the Winter Carnival Dance. There will be vivid-blue and silver-white streamers, gay mobiles, colored lights and many other decorative effects which will turn the gym into the place to be on Friday, December 1st.

The Wayne Foster Orchestra, one of the best groups on Long Island, will play for you from 9:00 p.m. to 1:00 a.m. Herman and his wife have entertained at BNL periodically since 1960 and have frequently received standing ovations for their performances.

Hold on to your ticket stub when you come. You might be the winner of our traditional door prize which will be awarded at midnight. Watch for announcements of other special prizes the night of the dance.

The admission cost for you and yours is only \$1.50 each. Your friends or neighbors are always welcome; you can buy their tickets at the door for \$2.00. We are selling beer and soda at cost, supplying the chips 'n' pretzels and ice. If you prefer, bring your own inventions.

We've been asked, so here's the word, this is **not** a costume dance.

Theatre Group Reminder

Don't forget the General Meeting of the Theatre Group on Tuesday, November 21, at 8:30 p.m. in the theatre. The program will be a presentation by Ed and Ginnie Sayre of "I'm Herbert" from the Broadway hit "You Know I Can't Hear You When The Water's Running." Needless to say, there will be a postmortem on the most recent production of the Group. Refreshments will be served after the meeting. Newcomers are invited to join the Group for a pleasant evening.

Bowling News . . .

The boys in the Red League are trying hard to match V. Felice —

J. Berech 242
S. Miller 227
J. Ferrant 224
J. Lee 221
L. Baker 213/214 for 600 scratch

In the Rose League, L. Bartos rolled a 214 to follow her 220 of previous week. M. Heine rolled a 667 gross.

H. Kelly of the Pink League bowled her first 200 game, giving her a 671 gross. Oh so close.

BERA Club Meeting Schedules

Aviation Club — No set schedule.
Camera Club — No set schedule.
Camping Club — Meets third Thursday of every month at the Recreation Building in the Lounge at 8 p.m.
Cooking Exchange — Meets every other Thursday at the Recreation Building from 3 to 5 p.m.
Judo Club — Meets every Tuesday and Thursday evening in the Gym at 5:15 p.m. for about an hour.
Mountain Club — Meets every Thursday behind the Cosmotron at 5 p.m.
Radio Club — Meets second Thursday of every month at the Recreation Building at 7:30 p.m.
Rifle-Pistol Club — Meets first Friday of every month at the Rec Building at 8 p.m.
Sports Car Club — Holds meetings at rallies about once a month.
Organized League Activities — See the posted Gymnasium schedule for league information.
Watch the *Bulletin Board* for announcements and changes to the above schedule.

BERA Film Series

Thursday, Nov. 30 - 8 p.m. - Lecture Hall
Goldstein

Written and directed by Philip Kaufman and Benjamin Manaster, starring Low Gilbert, Ellen Madison and Nelson Algren.

This winner of the Prix de la Nouvelle Critique at Cannes may indicate that there is more to the "underground cinema" movement than many suspected. The film is loosely based upon the legend of the Prophet Elijah, and, whether legend or satire, is visually stunning, alternately touching and riotously funny, sometimes macabre and always stimulating. The hero has encounters with junk sculptors, artsy-craftsy abortionists, and author Nelson Algren in his headlong plunge through this engrossing film.

Short: The Seven Arts

A prize winning animated satire on the history of the development of art (and critics) as seen from the caveman's view.

—Harvard Lyman

Movie Tonight: The Connection
No movie on November 23.

BNL Greeting Cards

In response to the many requests over the years, this year a special BNL "Season's Greetings" card will be available for purchase. The card will feature a night color photograph, taken after a heavy snow, of the Reactor Building. The dark building, with night-light patterns and their reflections on the snow, the red and white stack against a deep blue sky make an interesting and attractive picture.

The card will be available beginning Monday at the Film Service Office, 3 Center Street. Single purchase price is 25¢. There will be a reduced price for quantity purchase. For further information, call Connie, Ext. 7221.

Tickets Available Personnel Services

Tickets and Reservations Available - Theatre tickets may be purchased at a 20% discount and reservations for dinner/theatre may be made at a 10% discount. Schedules and prices are posted in the Recreation Office. All orders must be placed in person at the Recreation Office between the hours of 9 a.m. and 1 p.m. daily, and accompanied by a check or money order made payable to the theatre at least two days in advance. Dinner/theatre requires only a \$5 deposit per person.

Mineola Theatre - Now through November 19 Maureen O'Sullivan in "The Subject Was Roses;" November 21 through December 10 "Life Begins at Minsky's."

Westbury Music Fair - Now through November 19 Bobby Darin with Nipsey Russell and Kellaway Trio; November 3 through December 3 Ann Corio and Jerry Lester in "This was Burlesque."

Wedgewood Dinner Theatre - Now through December 17 Sherry Britton in "The Wild World of Burlesque."

(Sorry - no discounts on Saturday night)

LI Ducks Hockey - Reservations for discount tickets may be made by calling the Recreation Office, Ext. 2808, at least two days in advance of desired date. Reservations can only be accepted for any one of the three upcoming scheduled games and must be paid for at the Long Island Arena Box Office. Schedule information is posted at the Recreation Office.

Discount Exchange Tickets - May be picked up at the Recreation Office from 9 a.m. to 1 p.m.
Madison Square Garden - New York Knicks (Basketball).

Anta Theatre (New York City) - Now through November 18 "The Trial of Lee Harvey Oswald."

Classified Advertisements

Autos & Auto Supplies

65 MUSTANG - 6 cyl, std, trans, r/h, luggage rack, KO wheel covers, rally pac, excel cond, dk gr/blk int. John, Ext. 629, 928-1529.

55 INTERNATIONAL PICKUP TRUCK - 6 cyl, r/h. \$300. Ext. 2852.

2 SNOW TIRES - 5.20x13 (1.35x13) on white rims, new Goodyear Suburbanites. Mike, Ext. 7174, 2520.

VOLVO WHEELS - For snow tires, need a thump with a hammer. 2/\$5. M. Leopold, Ext. 2549.

60 CHEVROLET BELAIR - 4 dr, r/h, auto trans. \$275. Ext. 2515.

66 PONTIAC TEMPEST - 3 speed, 6 cyl OHC, light metallic blue sports coupe, pushbutton radio/heater, w/w tires, excel cond. Herb, Ext. 2795, 744-5238.

62 CHEVROLET - 4 dr, std shift, 6 cyl, r/h, new clutch & brakes, good w/w tires. \$150. Luccioni, Ext. 560, 732-3762.

65 FORD CUSTOM - Blue, 4 dr, r/h, 6 cyl, auto trans, good cond. Best offer over \$1000. GR5-8772.

8.00x14 WHEEL - For Chrysler product, w/well worn tire. \$3.50. Ron, Ext. 610.

64 PONTIAC GTO - Hard top, 4 speed, exceptionally clean. GR5-5894.

WHEELS - 6.50x13, 2 w/old tires. \$4. Swatton, Ext. 7642.

66 AMBASSADOR 990 - Std trans, ps, w/w tires, 4 dr, r/h, 6 cyl, 155 hp, 25,000 mi, excel cond. \$1600. Ext. 2967, GR5-8658 after 6 p.m.

62 MERCURY METEOR DELUX - Ps, auto trans, radio, good cond. 286-1218.

66 MALIBU - Conv, V8, 4 speed manual, bucket seats, excel cond, 11,000 mi, 1 yr guarantee still avail. 878-0950 after 4:30 p.m.

UTILITY BODY - W/trays, from telephone truck, also racks for piping. Ext. 576.

2 TIRES & WHEELS - 7.00x13, 8,000 mi on w/w tires. \$15. B. Brynda, Ext. 2189.

63 PEUGEOT - Black, 4 dr. \$475. C. Frua, Ext. 7164, 281-5710 after 6 p.m.

63 VOLKSWAGEN - Late model 1500, white sedan, 52,000 mi, carefully maintained, excel cond. \$980. Ext. 7612, HR3-7951.

64 CADILLAC SEDAN DEVILLE - Bk, all power, air cond, 36,000 mi, extras, excel cond. \$2295. M. Hansen, Ext. 2389.

61 CORVAIR MONZA 900 - Excel mech cond. \$325. F. German, Ext. 7204.

66 NSU PRINZ "1000" - Orig owner offers low mileage, like new, 5 passenger sportsedan, 32 mpg for \$1195. 724-3035.

57 FORD SEDAN - 4 dr, auto trans, new battery, muffler, plugs, runs very well. \$150. Ext. 2715.

2-14" FORD WHEEL RIMS - Rich, Ext. 2735.

2 SNOW TIRES - On Chevrolet rims, 7.75x14, 4-ply tubeless. Bargain at \$25. M. Greene, Ext. 7779.

Boats & Marine Supplies

18' KELLERCRAFT - 35 hp motor, tilt trailer. \$585. JUB-2271.

23' CHRIS CRAFT SEA SKIFF 1962 - 185 hp V8, hydraulic trans, s/s, bow rail, many extras, immaculate cond. Asking \$3000. Mike, HR2-0552.

Miscellaneous

BIRD CAGE - Stand, cover, accessories. \$5. John, Ext. 7196, 281-9476.

LAND - Manorville, 125 deep, 300 front. \$6000. F. Hill, 878-2399.

ELEC 10 KEY ADDING MACHINE - Sears orig tape in machine, hardly used. Asking \$75. Bob, Ext. 2167, 585-4973.

7' POOL TABLE - Like new, w/balls, rack & cues, will deliver. \$45. Dick, RA8-4264.

POLAROID CAMERA - 900 series, elec eye, wink light, case, color or black & white. \$45. Dick, RA8-4264.

ATTENTION WORKING MOTHERS - I will give day care to 1 or 2 children in my home. N. Patchogue. GR5-2833.

GO CART - Good shape, good Christmas present. \$75. 588-2271.

SCOTT COMBINED POSTAGE STAMP CATALOGUES - 1965, 1966, good for starting collector. Any offers? Kate, Ext. 7627, a.m. only.

HAMMOND B-3 ORGAN - W/leslie tone cabinet, 8 mos old. Orig \$3300, want \$2000. J. Bartalomy, Ext. 2411.

SHORE MICROPHONE - Model PE-54, Unidyne III. Orig \$95 each, 3 w/mike stnds, \$180. J. Bartalomy, Ext. 2411.

AMPLIFIER - Brociner Mark 10, mono, 10 watt (20 w peak), checked out, new tubes. \$24. K. Metzner, Ext. 2341.

MINI DACHSHUND PUPS - AKC champ line, full pedigree, 5 litter, papers. 234-1281.

COMPLETE SET WORLD SCOPE ENCYCLOPEDIA - 35 bks, excel cond, a world of knowledge. For only \$15. Al, Ext. 7142, 273-5574.

HOTPOINT REFRIGERATOR-FREEZER - 16 cu ft, good cond, \$50; limed oak 5 drawer bureau, \$25. Ext. 2318.

BUY A SANTA CLAUS PUPPY - AKC collies, tri-colored, ready for Christmas. \$50 each. Nancy, Ext. 2114, 878-2659 eves.

4 BRIDESMAIDS DRESSES - 3 floor length, size 8-10, all worn once. Gail, YA4-4865.

HAVING COMPANY? - Treat them to an authentic gourmet Chinese dinner prepared in your own home by expert chef. 475-0647.

MAN'S WINTER TOP COAT - All wool, grey tweed, almost new, made in Scotland, size 42; blk all wool winter coat, man's size 40. 286-1218.

PLATE GLASS MIRROR - Pittsburgh, 3'x6', 1/4 thk, new, bevelled, w/mtg, hardware. \$40. George, Ext. 301.

BEDRM SET - Dble bed, mattress, box spring, dresser w/mirror, chest, night table, walnut, cedar inside, very good cond. George, Ext. 301.

SUMP PUMP - GE, 1/4 hp, cast iron. \$25. George, Ext. 301.

MATTEL'S BARBIE DOLLS - Midge, Ken, Barbie, Alan, lg carrying case & at least 20 outfits for each doll. L. Blum, Ext. 7782.

KENMORE DRYER - Sears, soft-heat, white enamel, never used, not even installed, incl vent. Price? It's ridiculous \$100. 924-3949 after 4:30.

FILING CABINET - 5 drawer, letter size, ball bearings, \$50; mahogany bureau, 50 1/2" high, \$30; mahog buffet, 71" long, \$10. 751-3062.

TV SILVERTONE 24" - In handsome blond cabinet, needs new picture tube, other parts AOK. Ext. 2245.

AUTOHARP - Oscar Schmidt 12 bar model, 1 yr old, excel cond. \$40. Judy, Ext. 2357.

US ARMY SKIS - Quick release binding, kickout toe holder, all adjustable. \$15. Ext. 353, AT6-0436.

STROBE LIGHT - Photographic, heavy duty, 80 watt-second, AC or DC. \$80 value, \$25 firm. Ext. 353, AT6-0436.

FREIDEN MODEL H CALCULATOR - Hand operated, 8 digit keyboard, 17 digit output, auto divide. \$75. Ext. 597, AT6-0436.

WHITE SEWING MACHINE - Converted to elec, very good cond. \$10. Diane, Ext. 7778.

WHITE SEWING MACHINE - In good cond, button hole attachment, zipper foot. \$30. R. Ince, Ext. 2295.

ZENITH 21" TV - W/remote control, just overhauled. Ext. 423.

CLASSICAL MONAURAL RECORDS - Finest labels, excel cond, we went stereo. 289-0424, 7-9 p.m.

SAUNA - Portable, red fiberglass, perfect cond. \$150 C. Frua, Ext. 7164, 281-5710 after 6 p.m.

FAIRCHILD COMPANDER - For the dynamic recreation of orig performance of recordings, perfect cond, complete w/instructions & specs. \$25. C. Frua, Ext. 7164.

ORIG OIL PAINTINGS - Imported from Italy, lg selection, wholesale prices. Bob, Ext. 481, 281-6372.

42" SNOW PLOW BLADE & ADJUSTABLE HARDWARE - For garden tractor, 6 adjustable positions. McGrann, Ext. 7387.

HEIDI - 3 1/2 yr old German Shepard, has been spayed & has had all shots, needs a home with lots of room to run. MO1-0402.

HART "SUPER PRO" SKIS - W/Nevada toe bindings, used 1 season. \$85. 924-8296 after 5 p.m.

CRAFTSMAN 10" CIRCULAR SAW - Tilting arbor, 3/4 hp, 110 v, table, extensions, stand, \$125; Admiral refrigerator, 10 cu ft, 1 yr old, \$100. 744-3926 after 6 p.m.

PENTRON TAPE RECORDER - 2 speed, good cond, 5 tapes, microphone, \$60; bowling ball & bag, woman's 12 lb, \$15. 744-3926 after 6 p.m.

SKIS - Never used, without bindings. \$20. Ext. 2313.

ELEC BASS GUITAR & LAFAYETTE AMP - Dual pickup, like new. Susan, Ext. 2313, 281-8566 after 5 p.m.

35 MM SLIDE PROJECTOR - Olympus Pen, like new, w/auto stack loader, cooling motor, wide angle 2.8 lens, nice compact unit. Ext. 423.

VACUUM CLEANER - 2 mos old, hardly used, Shetland, w/attachments. Paid \$65, will sell for \$45. Ext. 2885.

TRAINING WHEELS FOR BICYCLE - Torre, Ext. 423.

ACCORDION - 120 bass professional model, very good cond, w/carrying case & metal music stand. \$90. Julio, Ext. 2430.

DRUM SET - Snare drum, stand & sticks, bass drum & cymbal. All for \$50. Julio, Ext. 2430.

COLLIE PUPS - AKC, 3 mos old, health guaranteed, champion lines. R. Breuning, 924-8681.

INFANT SEAT - Excel cond, \$3; Taylor Tot jumping chair, excel cond, \$5. Lou, Ext. 2850.

DISHWASHER - Lady Kenmore, used 4 yrs, good cond, under counter type. \$50. Schoener, 878-1584.

ELEC TRAINS - American Flyer, S-gauge, dual transformer, 2 engines, 2 pr switches, lots of cars, track, extras. \$85. R. Loper, Ext. 2485.

BUNNIES - 4-legged. \$1.50 each. Carl, Ext. 7440.

Houses

PT JEFF STATION - 4 bedrm high ranch on 1/2 wooded acre, liv rm, din rm, panelled kitchen & den, 20' dining deck, laundry rm, dble garage, 2 baths, s/s, w/w carpet. \$20,500. HR3-9180.

For Rent

3 RM FURNISHED APT - Incl util, North Shore. 744-2004 after 6 p.m.

4 BEDRM HOUSE - E Patchogue area, elec kitchen, washer, dryer, play rm, din rm, liv rm (14x20), 1 acre. \$125/mo. Ext. 2114, 878-2659 eves.

2 BEDRM COTTAGE - Bellport Village, furnished. \$110/mo. 286-0656.

5 1/2 RM APT - Unfurnished, Southampton, John, Ext. 2376.

Wanted

GIRLS - With desire to "Man handle." Call old, weak homely, married Bob, Ext. 309 (Judo Club)

GIRLS 24" OR 26" BICYCLE - Training wheels for 20" bicycle; doll house. D. David, Ext. 7511.

CLEANING WOMAN - Reliable & trustworthy, 1 day/wk, steady, own trans. GR5-8658 after 6 p.m.

2 GOOD SNOW TIRES - Sizes around 6.95x14 or 7.10x14, also want a file cabinet, 3 or 4 drawer w/lock. Ext. 2179.

INFORMATION - Regarding group flights to England this Christmas. P. Soo, Ext. 666.

PUPILS SPANISH LESSONS - Children & adults. Ext. 7720.

PLAYSKOOL TYKE BIKE - In relatively good cond. Ext. 2259, 751-3551.

RIGHT HALF OF TIGERAMA \$1000 - Will split 50/50. Frank, 727-3249 after 5:30 p.m.

1 VERY SMALL TOY POODLE - Black, male, for 1 very small female black toy poodle; object, honey-moon. F. Merkert, Ext. 7639, SE2-3003.

VOLVO - Prefer station wagon. YA4-4865.

DOG HOUSES - Any size. R. Breuning. 924-8681.

DOG RUNS - And/or pens. R. Breuning, Ext. 2815.

16 MM PROJECTOR - Silent preferred, any cond - please. Ken, 589-4970 after 6 p.m.

GOOD HOMES - For sweet tempered 1/2 Siamese cats (don't look Siamese), 6 wks old. M. Tainiter, Ext. 2728.

FOREIGN VISITORS - Who would like to have Thanksgiving dinner in an American home on Nov. 23. 929-6132.

2 COMPLETE BEDRM SETS - Dble & single, 1 liv rm set plus studio couch & desks, fair cond. John, Ext. 2376.

Carpools

JOIN US - On-time carpool from NW Patchogue, Waverly Ave between Sunrise & Long Island Ave, 2 men looking for 3rd & 4th. Becker, Ext. 383.

PAYING RIDER - Needs ride TTF from Smithtown Blvd, Nesconset. Bob, Ext. 2167.

ESTABLISH OR JOIN - ON-time carpool from Lake Grove area (Windmill Farms). Ext. 2886.

BRENTWOOD - North, via LI Expwy, wish to join or form flexible carpool. Rakowsky, Ext. 7463.

Lost & Found

FOUND - Golden retriever, male, vicinity of Bellport. AT6-0269.

Classified Ad Policy:

1. The Bulletin Board's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. 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.
4. Ads associated with a full- or part-time business cannot be accepted.
5. Ads should be restricted to 20 words or less and typed or

- printed on the form provided. (Additional copies of the form are available at the Bulletin Board office.) Twelve noon on Friday is the deadline for inclusion in the following week's issue.
6. Ads are run on a space-available basis; those not carried because of space restrictions will be held for inclusion in the next issue.
 7. Ads are run only once and must be resubmitted if they are to be repeated.

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| <input type="checkbox"/> For Sale: Auto & Auto Supplies | <input type="checkbox"/> For Sale: Houses | <input type="checkbox"/> Carpools |
| <input type="checkbox"/> For Sale: Boats & Marine Supplies | <input type="checkbox"/> For Rent | Check <input checked="" type="checkbox"/> the heading applying to your ad. |
| <input type="checkbox"/> For Sale: Miscellaneous | <input type="checkbox"/> Wanted | Print or type your ad in 20 words or less. |

If this ad concerns housing for sale or rent, such housing is available without regard to race, creed, color, or national origin.

Employee's Signature Life No. Ext.

Send to: BULLETIN BOARD, 40 Brookhaven Avenue