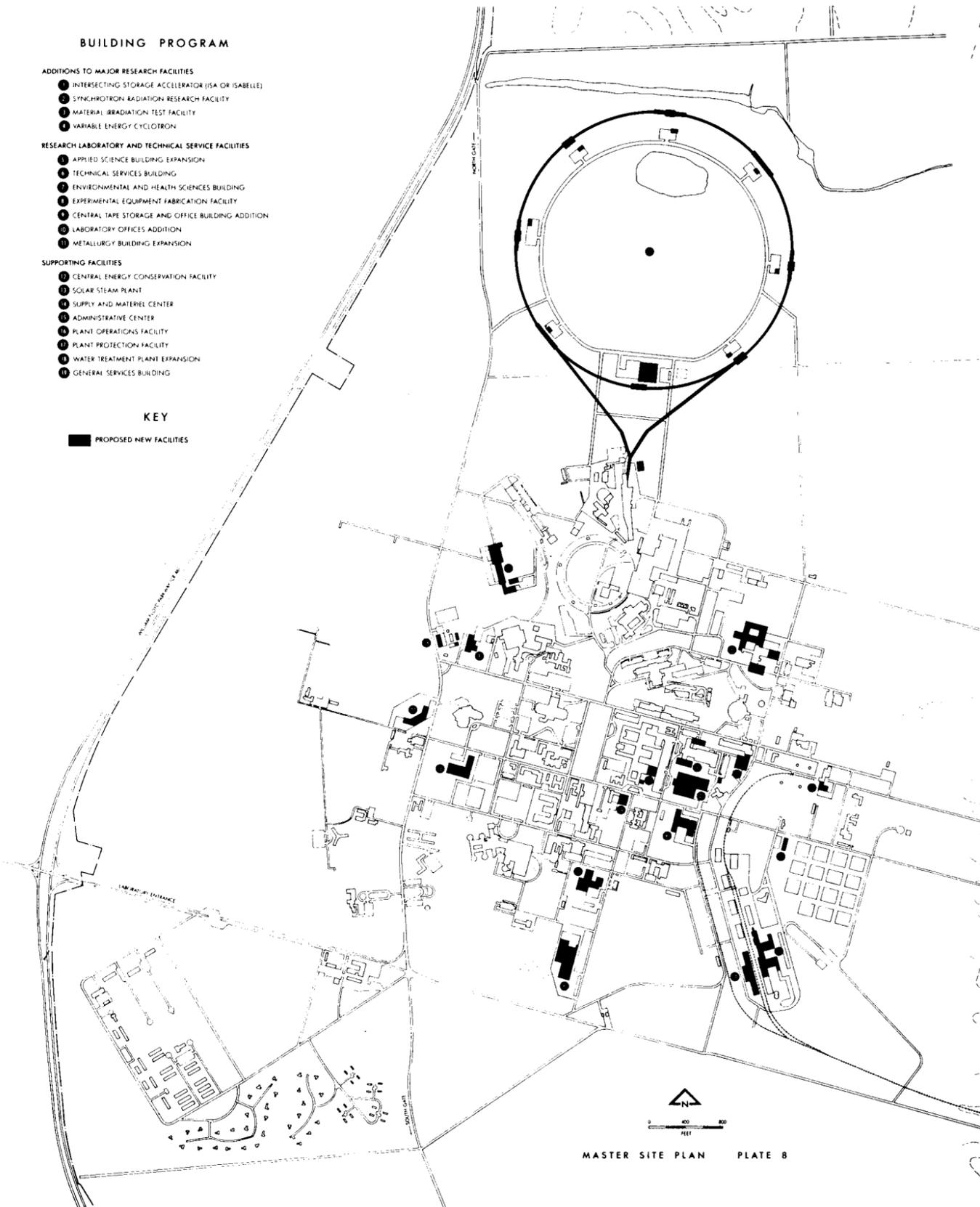


## BUILDING PROGRAM

- ADDITIONS TO MAJOR RESEARCH FACILITIES**
- ① INTERSECTING STORAGE ACCELERATOR (ISA OR ISABELLE)
  - ② SYNCHROTRON RADIATION RESEARCH FACILITY
  - ③ MATERIAL IRRADIATION TEST FACILITY
  - ④ VARIABLE ENERGY CYCLOTRON
- RESEARCH LABORATORY AND TECHNICAL SERVICE FACILITIES**
- ① APPLIED SCIENCE BUILDING EXPANSION
  - ② TECHNICAL SERVICES BUILDING
  - ③ ENVIRONMENTAL AND HEALTH SCIENCES BUILDING
  - ④ EXPERIMENTAL EQUIPMENT FABRICATION FACILITY
  - ⑤ CENTRAL TAPE STORAGE AND OFFICE BUILDING ADDITION
  - ⑥ LABORATORY OFFICES ADDITION
  - ⑦ METALLURGY BUILDING EXPANSION
- SUPPORTING FACILITIES**
- ① CENTRAL ENERGY CONSERVATION FACILITY
  - ② SOLAR STEAM PLANT
  - ③ SUPPLY AND MATERIEL CENTER
  - ④ ADMINISTRATIVE CENTER
  - ⑤ PLANT OPERATIONS FACILITY
  - ⑥ PLANT PROTECTION FACILITY
  - ⑦ WATER TREATMENT PLANT EXPANSION
  - ⑧ GENERAL SERVICES BUILDING

## KEY

■ PROPOSED NEW FACILITIES



## Planning Ahead

A look at the physical plant of the Laboratory and plans for its development in the next five years has just rolled off the press in the form of the Master Site Plan. The last such survey was undertaken by the Laboratory in 1967.

Continuing research in fundamental sciences "with emphasis on the development and use of large-scale research tools such as particle accelerators, nuclear reactors and specialized laboratories," remains the major role of the Laboratory.

Major research facilities proposed for construction during the next five years are ISABELLE, the contra-rotating proton synchrotron with two 200 GeV accelerator rings in a common tunnel; the Synchrotron Radiation Research Facility, an electron storage ring dedicated as a national facility for multidisciplinary research with high intensity synchrotron radiation; a Material Irradiation Test Facility, an extremely versatile, high-flux neutron radiation test facility for controlled thermonuclear reactor research; and a Variable Energy Cyclotron, a commercially available isochronous cyclotron capable of accelerating protons to 70 MeV, as well as other particles such as deuterons, alpha particles and helium-3 ions, for use in nuclear medicine. A 50% increase in power of the High Flux Beam Reactor has already been approved for Fiscal Year 1977.

A section on energy conservation and proposed energy related construction projects is a major addition to the 1976 Plan.

Nine years ago, energy was not yet a subject of national concern, and was not mentioned in the Site Plan. This year, "to be in the forefront of energy technology development," has become an increasingly important function of the Laboratory.

Although Brookhaven is engaged in rapidly expanding research programs to develop new energy forms and methods for the nation, the Master Plan deals principally with the on-site conservation projects. Besides many modifications to the existing steam, heating, air conditioning and electrical systems, several capital improvements are proposed.



Lou Harson

One such facility is a central chilled water and compressed air plant which, initially, will provide 5000 tons of refrigeration and 1500 cubic feet of compressed air, to be transmitted by means of an underground piping network to the Medical Research Center, Biology, Physics, Applied Mathematics, High Flux Beam Reactor and to the Tandem Van de Graaff. The facility, planned for funding in 1978, will replace the individual refrigerating systems in these buildings and will effect an estimated cost reduction in energy of \$332,000 per year. Over the next decade, this facility would be expanded and connected to about sixteen other buildings.

Envisioned for 1980 is a Solar Steam Plant which is expected to save over 1,500,000 gallons of #6 fuel oil per year. This sun plant, designed for a production capacity of 85,000 pounds of steam per hour, would supplement the existing Central Steam Plant production. Realization of this project will depend on getting funds for a pilot project which is awaiting approval by ERDA's Solar Division.

Implicit in the overall plan is the Laboratory's awareness of its effect on the environment: the conservation of flora and fauna and water resources in its own backyard, and its contribution to the expansion and improvement of the local economy. "We want to be good neighbors," says Louis Harson, Principal Architect of the Laboratory who headed the Master Plan team. "In our planning, we try to look at everything inside and out so as not to have any adverse effects on the environment."

(Continued on page 2)

## Nuclear Energy Safeguards

William A. (Willy) Higinbotham will discuss the safeguards problems associated with nuclear energy and the measures being developed to deal with them from the national and the international points of view in the 138th Brookhaven Lecture, Wednesday, September 15, at 8 p.m. in Berkner Hall. He also plans to emphasize the responsibility of Brookhaven personnel



Willy Higinbotham

to contribute to the public understanding of this subject.

Higinbotham has been concerned about the nuclear arms race ever since he worked on nuclear weapons at Los Alamos during World War II. He was a member of a BNL *ad hoc* committee which, in 1967, proposed establishing a group here to provide technical advice and assistance to the AEC on safeguards for nuclear materials. He has been an active member of the BNL Technical Support Organization on Safeguards in DAS since its establishment in February 1968.

To many at the Laboratory, Higinbotham is better known for his contributions to nuclear instrumentation. He was associate head of Instrumentation from 1948 through 1951 and head of the division from 1952 until 1968, when he transferred to DAS in order to work full time on safeguards. Among his many Government patents on electronic circuits are the "bootstrap" sawtooth generator widely used in oscilloscopes and the Higinbotham Scaler, invented at Los Alamos, which made possible a reliable count of random pulses from radiation detectors at high rates, electronically.

He is a Fellow of the American Physical Society, the AAAS, the American Nuclear Society and the Institute of Electrical and Electronics Engineers (IEEE). In 1972 he received the first annual award for contributions to nuclear instrumentation from the IEEE Nuclear Science Group.

Higinbotham has also achieved some renown for his singing and playing on the accordion. He played for square dancing at Los Alamos on Saturday nights and, after coming to BNL, was one of the Fearsome Foursome that played for square dancing for many years.

A buffet supper will be served in the Brookhaven Center before the lecture beginning at 6:30 p.m. Reservations should be made in advance by calling Ext. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

## Official & Special Events

Monday, September 13

Navy Meeting

Wednesday, September 15

BNL Lecture - Berkner Hall - 8:00 p.m.

Friday, September 17

USSR Delegation Visit

Tuesday, September 21

Radiopharmaceutical Chemistry Symposium (21-24)

## What Did He Say?

Here are some more puzzlers which translate into well known sayings. The following example will show you what we mean:

*Prompt suturing enables the baseball team to survive*

translates into

*A stitch in time saves nine.*

The following have been submitted by Anne Nauman:

1. The booze is agreeable but the meat is insipid.
2. Lions depart in summer.
3. Marijuana is less ripe when grown by a neighbor with three feet.
4. Mick Jagger does not collect bryophytes.

The answers will be published next week. Send your contribution to the *Bulletin* for publication in a later issue.

## Stony Brook Events

Comedian/human rights activist Dick Gregory is the first of six speakers scheduled for Sunday evenings through November at SUNY Stony Brook. His talk is scheduled for September 12 at 8:00 p.m. in the Stony Brook Gym. Admission is \$3 for the general public.

Other lectures will feature reporter/author Carl Bernstein (September 19), New York Times critic Clive Barnes (October 10), personality Dick Cavett (October 17), publisher Al Goldstein (October 24), and comedian Robert Klein (November 7). Tickets may be reserved by calling Student Activities Board, 246-7085.

## BERA Ticket Services

For the past several years BERA has sold tickets to sporting and other events without imposing a service charge thus incurring a loss on unsold tickets. Due to inflated operating cost, the Board feels that it can no longer sustain such a loss and regrets that it will be necessary to impose a 50¢ service charge per ticket on all ticket sales for outside events, starting with the new season.

The restriction of a maximum of two tickets per BERA member for games involving two New York teams e.g. Nets vs Knicks or Islanders vs Rangers, will again be in force.

## It's Time to Think Badminton

For those badminton players interested in elevating the quality of their singles and doubles play, a badminton clinic has been tentatively scheduled on Mondays and Wednesdays, 5:00 p.m. - 6:30 p.m., September 27 through October 13.

Those persons wishing to participate should register at the film service counter by September 15. Depending on response, one class or two may be held on a first come first served basis. A moderate fee will be charged to cover cost of shuttlecocks. For further information call John Elmore, Ext. 3626.

## Runner's Corner

Well, it's that time again - the annual BNL Open Run.

Plans are now underway to hold an open run on October 3, 1976. The distances will be 5,000, 10,000 and 20,000 meters (mile equivalents - 3.1, 6.2 and 12.4). The idea to go metric is in keeping with the rest of the running world, both domestic and foreign.

A Runners' Club meeting will be held this Friday, September 10, in Building 197 in the conference room. Call Gus Prince, Ext. 2901/2, or Bill Thomlinson, Ext. 3978/4434, for the time.

Other topics to be discussed will be awards distribution, future plans and election of officers. Interested parties should contact either Gus or Bill.

### 1000-Mile Club

Runners still interested in becoming members of this "elite" group should send in their monthly distances to Anne Nauman, Biology, Bldg. 463. Two runners, Gus Prince and Bob Tucker, have already exceeded a thousand miles since January 1, 1976. They are followed very closely by Peter Rathvon, who has over 800 miles, and he only started keeping his records in April 1976.

Incidentally, walkers are also eligible for the 1000-Mile Club.

## Cafeteria Menu

### Week Ending Sept. 17, 1976

#### Monday, September 13

Cream of Mushroom Soup  
Chicken a la King on Rice 1.10  
Cheese Omelet & 1 veg. 1.00

#### Tuesday, September 14

French Onion Soup  
Chinese Pepper Steak on Rice 1.25  
Roast Fresh Ham & 1 veg. 1.30

#### Wednesday, September 15

Split Pea Soup  
Breaded Flounder Filet & fr. fr. 1.15

#### Special

Spaghetti w/Meat Sauce & Garlic Bread  
All you can eat \$1.10 plus tax

#### Thursday, September 16

Cream of Chicken Soup  
Beef Hash & 1 veg. 1.15  
Veal Pattie Parmigiana & 1 veg. 1.20

#### Friday, September 17

Manhattan Clam Chowder  
Broiled Filet & 1 veg. 1.15  
Meat Loaf & 1 veg. 1.15

## Site Plan

(Continued)

Another area that has grown by leaps and bounds since 1967, is communications. The last Site Plan referred only to a telephone system. Then, CENTREX was just a possibility, but in 1972 it became a reality. Now the Laboratory also has the capability of various hard copy wire services and four remote facsimile telephone line transmitting stations.

Other systems include police and fire VHF radio systems, the Emergency Relocation Center's HF radio, and four short range local radio systems. The installation of a central VHF paging system which will permit one-way voice transmission to a pocket pager via a six digit telephone dial access system has been authorized.

The Central Scientific Computing Facility employs two communications systems. One system, called BROOKNET, couples small and intermediate size computers at remote on-site locations to the central computers. The second system links the central computers via telephone lines with remote on-site and off-site keyboard and batch processing terminals.

Communications is just one example of the expanded services required to meet the varied research needs of the Laboratory. As it has for 30 years, Brookhaven continues to grow and, as Laboratory Director George Vineyard says in his introduction to the document, "A Master Plan provides a source of direction for future development. It is based on the best information now available and a reasonably conservative look into the future. For this reason it is a flexible document subject to revision as actual needs of the Laboratory become more apparent."

"In ancient days two aviators procured to themselves wings. Daedalus flew safely through the middle air and was duly honoured on his landing. Icarus soared upwards to the sun till the wax melted which bound his wings and his flight ended in fiasco . . . The classical authorities tell us, of course, that he was only 'doing a stunt'; but I prefer to think of him as the man who brought to light a serious constructional defect in the flying-machines of his day.

"So, too, science. Cautious Daedalus will apply his theories where he feels confident they will safely go; but by his excess of caution their hidden weaknesses remain undiscovered. Icarus will strain his theories to the breaking-point till the weak joints gape. For the mere adventure? Perhaps partly, that is human nature. But if he is destined not yet to reach the sun and solve finally the riddle of its constitution, we may at least hope to learn from his journey some hints to build a better machine."

From *Stars and Atoms*, by Sir Arthur Eddington (Oxford University Press, 1927, p. 41)

## Nursery School Reopens

The Upton Nursery School will start its 12th season on Monday, September 13. The School is a cooperative, non-profit nursery school, accredited by the State of New York, and located on the Laboratory grounds in the Recreation Building. It is open to three and four year old children of all Laboratory employees, residing both on- and off-site.

The school offers a wide range of activities aimed at allowing the child to discover and explore his environment, his own capabilities and identity. Our aim is the happiness and development of the children as they learn to respect themselves, and the various ways of others. Activities include art and nature projects, individual and group play, athletics, songs, games, cooking and tasting experiences, and several field trips. Classes are small to afford each child individual attention. Our highly qualified professional teachers have been with the school for a number of years.

The School is administered by a volunteer committee of parents who make up the Executive Board. The current Executive Board consists of the President/Chairman (Ash Agrawal), Secretary (Deirdre Trondle), Treasurer (Jan Gangwer), Enrollment Chairman (Sharon Paschos), and Teacher Representative (to be elected). Various committees are also headed by parent volunteers. In addition, parents assist the teachers in the classroom throughout the school year. Each family is responsible for a certain number of days as an assistant.

The School is in session from September to June and runs from 8:30 a.m. to 11:30 a.m. There are currently four classes: two 3-year-old classes of no more than ten children each, and two 4-year-old classes of fifteen children each. These classes are held on either Monday, Wednesday and Friday or Tuesday and Thursday. The current monthly tuition is \$24 for two half days per week and \$35 for three half days per week.

Openings exist in all but the MWF four-year-old class. For enrollment, please contact Sharon Paschos at 928-4270, or any of the Board members. Inquiries can also be addressed to Upton Nursery School, Inc., P.O. Box 324, Upton, NY 11973.

## Selected Reading

Bull. At. Sci. 32, September 1976

Nat. Geographic 150, September 1976

The new biology:

I - Awesome worlds within a cell. R. Gore. 355-95

II - The cancer puzzle. R.F. Weaver. 396-9

III - Seven giants who led the way. R. Gore. 401-7

Nat. Rev. 28, September 17, 1976

Surviving a nuclear war. C.M. Haaland and E.P. Wigner. 1005

## Bowling Starting Dates

Starting dates for the 1976-77 bowling season have been set as follows:

Ladies' and Men's Tuesday Night Leagues at Port Jefferson on September 14, at 6:00 p.m.

Wednesday Night Mixed League at Port Jefferson on September 15, at 6:30 p.m.

Thursday Night Mixed League at Shirley on September 16, at 6:30 p.m.

**Good Housekeeping checked how much faster water boils in a covered pot. Using the same pot, amount and temperature and water, there was a 20 percent saving on gas and electric ranges with the covered pot.**

## Inside Info

Eugene P. Cronkite, Chairman of the Medical Department, was voted President-Elect and Vice-Chairman of the Board of Trustees of the International Society for Experimental Hematology, at the Annual Meeting of the Society last month. In a three-year term he will serve as President-Elect the first year, Society President and Chairman of the Board of Trustees the second year, and Society Past President the third year.

Arland L. Carsten, Medical Department, was elected Councillor of the same Society for a term of three years.

## Hospitality News

The first morning coffee of the fall season will be held in the Brookhaven Center on Thursday, September 23, from 9:30 to 11:30 a.m.

A formal program will not be presented in order that we may have plenty of time to welcome newcomers to the Laboratory and greet our old friends. However, we would enjoy seeing any handcrafts you might want to demonstrate or show us.

Please come and bring the children. Babysitting will be provided at no charge.

## Glamour Of The Greeks

The very first meeting of the Cooking Exchange will be a fascinating sampling of the delights of Greek cooking.

We will be expecting to see you on September 15 at 12:30 p.m. at the Recreation Building. Just bring 75¢ for the ingredients, 25¢/child for the babysitter, and your appetite.

We'll see you on the 15th!

—Judy Mills

## Notice To Spouses — Cooking Exchange Returns

On Wednesday, September 15, the Cooking Exchange will resume its regularly scheduled program. Imagine - a whole new season of cooking extravaganzas! We meet on alternate Wednesdays in the Recreation Building at 12:30 p.m. We even have babysitters!

We will be looking forward to seeing all the old, familiar faces and many, many new ones. See you on the 15th!

—Judy Mills, Chairman

## Bicycling News

Start your training now - the fall bicycle race is scheduled for Sunday, October 3. Consideration is being given to making this a time trial rather than a bunch start, in contrast to the spring event. Send your comments to G. Morgan, Bldg. 815.

Coming up shortly is the Hi-Point Hundred, a tour of 25 to 100 miles starting at Nassau Community College on September 19. This is organized by the Grumman and Massapequa clubs.

Also scheduled is a re-run of the Riverhead Run, the 65-miler that was so successful this summer. This will be on October 10.

For details about either tour, contact G. Morgan, Ext. 4841, Bldg. 815.

## Pool Fall Schedule

Fall season tickets are on sale at the pool during open hours. Prices for the 3-month period are \$5 for individuals, \$10 for families.

Schedule (effective 9/7/76)

### Weekdays

11:30 a.m. to 1:30 p.m. Employees only  
5:00 p.m. to 9:30 p.m. Employees, Family Members, Guests

### Saturdays & Sundays

1:00 p.m. to 6:00 p.m. Employees, Family Members, Guests

The pool will be closed on Monday, September 6, a Laboratory holiday.

### Swimming Pool Rules

Only one guest per adult member may be admitted to the pool. Adult BERA members may have more than one but not more than five guests at any one time by making advance arrangements with the Receptionist in the Personnel Office.

Members will be responsible for the conduct of their guests or their children, or both.

**BROOKHAVEN BULLETIN**

Published Weekly for the Employees of Brookhaven National Laboratory

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CARL R. THIEN, Public Relations Officer

**Letters To The Editor**

To the Editor:

We are all saddened over the sudden death of our good friend Ginja Chikkappa, a kind and gentle person, she will be missed by many and is irreplaceable.

— Ruth Dimmler, on behalf of all her friends at the Lab.

To the Editor:

I read with great interest in the Sunday *Daily News* of August 29, 1976, that you were erecting a memorial to the men who were trained at Camp Upton.

I myself am of World War I vintage, and I should like to acquaint you with some of the facts. I arrived in Camp Upton on December 7, 1917.

Camp Upton was not only a training camp, but much more than that. Camp Upton in World War I besides serving as the training camp for the 77th Division, also served as the induction center for the Northeast, and when the 77th Division left for overseas in May 1917, it became the last stopping point for all divisions from the U.S. who were to be sent overseas by way of the point of embarkation in New Jersey.

Many divisions en route overseas would camp at Upton, in order to make sure that the division had its full complement, because men were going A.W.O.L. in training, and it was up to Camp Upton to fill in the Divisions with men that the Divisions were short. Men had to be given various tests in order to get the right ones filled for the vacancies.

I can remember putting in 36 to 48 hours without a stop, receiving various divisions, having to quarter, feed and get them ready to be shipped overseas.

When I arrived in camp (drafted) on December 17, 1917, I was assigned to Battery F, 306th F.A. - 77th Division, where I was to be trained and stayed with them until May 1918, a fully trained soldier.

It was at that period in April and May when we were well trained, and we were all fidgety, hanging around waiting, doing nothing to be shipped across, and many men were getting tired of hanging around, when five men and myself decided to leave camp A.W.O.L. to New York City. We were away for about a week or ten days and when we returned, we found that our division had left, and we were naturally put into the brig of the 152nd Depot Brigade, where we stayed for a few days. When we were released and attached to the Headquarters Company of the 152nd Brigade of Camp Upton.

It was then that we took on the assignment of accepting soldiers from all over the country and we really started to work. I was a buck private at the time, and very quickly earned my stripes to P.F.C. - Corporal - Sergeant - Battalion Sergeant Major and then to the top as Regimental Sergeant Major in charge of all personnel of the Headquarters Company 152nd Depot Brigade under Major Joseph Clapp Nichols and under General Bell.

I was discharged on December 31, 1918, a New Year's Eve gift.

Louis Zarowitz  
Brooklyn, New York

P.S. I also had the duty of going to Fort Jay once a week to bring back soldiers who deserted and were picked up around New York City.

To the Editor:

After a very pleasant stay at the Lab for half a year, it happened in the last day at BNL in all our packing that my last pay check suddenly was missing. I would like to express in this way my sincere thanks and also the thanks of my family to the security forces on site for their help in that case. Two policemen, Mr. Stafford and Mr. McKenzie went through the unpleasant job to look into every garbage bag and into every suitcase, until the check was found.

Klaus H. Wiesemann  
Bochus, West Germany

**Barge Due**

The New York State Bicentennial Barge will dock in Port Jefferson Oct. 2 and 3. Accompanying activities include performances by singer Harry Chapin, the Huntington Militia, Suffolk County Concert Band and the International Art of Jazz.

**Ladders Winding Down**

All those tennis players who have been juggling positions on the men's and women's tennis ladders over the summer should note that September 15 will be the last day of play. The people to chase on the men's ladder (in order of last week's standings) are 1. Tom Koetzle, 2. Roger Cowley, 3. Naresh Bhagat, and 4. Harvey Goldman; on the women's - 1. Gail Williams, 2. Jean Burt, 3. Wen-shi Yu, and 4. Marge Stoeckel.

Players are reminded that six matches must have been played over the ladder season to qualify for a BERA Participation Award, so here is another reason for some to issue their last minute challenges.

**It's . . . . Cricket**

The last cricket match, held on August 29 was both enthusiastically played and attended. In spite of a brief downpour, no spirits were dampened, and the Brookhaven XI defeated the Visitors XI. The Brookhaven XI easily scored 72 runs with three batters retiring without being put out, against the Visitors XI 42 runs.

The Brookhaven Cricket Club is happy to announce that it is expanding its horizons and will play its first off-site match against another established team. It will be played in Oyster Bay on Saturday, Sept. 18, against the Cold Spring Harbor Laboratory team. We are also pleased that the Long Island Cricket League has accepted an invitation to come to the Laboratory to play a match against us on Sunday, Sept. 26 (rain date Oct. 3). There will be a special party held after this game.

We urge everyone interested to join us on both of these occasions to encourage us in our cricket endeavors. For further information, please call Debu Majumdar, Ext. 2633, or Gail Thompson, Ext. 2902. Come and join us.

**Softball**

Ed Taylor

**League I**

Ravens 13 - Blue Jays 4

Ravens 4 (4-3) - Blue Jays 5 (3-4)

Bob Barone and Bob Brown led the Ravens to victory in the first game. Bobby Meier pitched a good game for the Blue Jays, as they bounced back to take the nite-cap.

Hawks 7 - Old Timers 6

Hawks 2 (4-3) - Old Timers 5 (3-4)

Excellent defense by the Hawks enabled them to hang on to a 7 to 6 extra inning victory in the first game. Joe Strelecki went 5 for 6 with a homerun for the Hawks in the first game. Larry Musso pitched well in both games for the Old Timers.

**League II**

Dirty Sox 7 (5-3) - Metallurgy 3 (2-6)

Walt Brooks had a big triple for the Dirty Sox.

Six Pax 15 (5-3) - Bubble Boys 5 (4-4)

Chuck Carlson and Artie Dick hit homeruns for the Six Pax. Bobby Sheets hit a homerun for the Bubble Boys.

**League III**

Phoubars 16 (4-4) - Circuits 6 (7-1)

The Phoubars earned this win with a big 9 run 3rd inning. Don Brown had a grand-slam homerun and Richie Parsons had 3 hits for the Phoubars. Ken Kowalski played well at shortstop for the winners also.

Sweathogs 10 (3-5) - Medical 3 (2-5)

Bill Gunther (4 for 4) and Tony Todoro (2 for 4 and 2 R.B.I.s) led the Sweathogs to victory. The entire team played outstanding defensively.

**League IV**

Streakers 24 7 (6-1)

Charlie Browns 4 4 (3-4)

In the first game, the Streakers locked the game up by scoring 14 runs in the 5th inning. Vince Letteri had 2 homeruns and John Post played well defensively for the Streakers.

Power Packers 19 7 (4-3)

Nuke Powers 10 4 (1-6)

Issac Maya hit a homerun for the Power Packers in the first game.

**League V**

Games postponed. Wet fields.

**1976 Tennis Winners**



Shizue Iwai - women's singles, and Barry Auskern, winner of the men's singles.



Barry Auskern with "The Auskern Cup," a perpetual trophy to be given to the winner of the men's singles, established in memory of his father, the late Allan Auskern.



Mary Jane Stangby and Andy Kevey - mixed doubles.

**Rock Climbing**

The BNL Mountain Club will be climbing at the Gunks on Saturday and Sunday, September 18 and 19.

There will be a meeting at noon on Thursday, September 16, in Room C of the Cafeteria to discuss details. Anyone interested in going should attend this meeting of call Don David on Ext. 4821. Beginners welcome.

**Classified Advertisements**

**Placement Notices**

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

199. LABORATORY CUSTODIAN - Three positions. Plant Engineering Division.

200. ENGINEER - BS Engineering science or equivalent, with knowledge of materiel management. Assignment involves procurement, control and accounting for radioactive and fissionable materials. Isotope and Specials Materials Group. Reactor Division.

201. BIOLOGY ASSOCIATE - Seeking BS degree or equivalent in biophysics with biology or chemistry background. Computer experience desirable. Biology Department.

202. REACTOR OPERATOR - Seeking operator with sound knowledge of mechanical technology. AAS degree or equivalent with reactor experience desirable. Shift work. Reactor Division.

**Autos & Auto Supplies**

65 VW SQUAREBACK - For parts, runs, engine needs work, good tires, 2 new, new clutch, muffler, needs work, \$200. Curtiss, Ext. 4608.

CARB 4 BBL - Carter, will fit GM cars, has been cleaned. Asking \$10. E. Rogers, Ext. 4028.

CAR RADIO PUSH BUTTON - Seek & find from GM 62 Cad. Asking \$10. E. Rogers, Ext. 4028.

4 CHEVY RIMS - 15x7" Z-28 mag wheels, gray spike. \$15 each. Bill Norton, 475-3415 after 5.

TIRES - Used & recaps, most sizes, extra rims available. Ken, 289-8212 eves.

73 DUSTER - 318 V8, 3 speed on floor, crager mags, 37,000 mi. \$2350. R. Ostrom, 475-3650.

62 BUICK SPECIAL - 2 dr, 3 spd, 95,000 mi, good engine, body needs work, requires battery. Asking \$35. Tom Koetzle, Ext. 4384.

73 MG MIDGET - New battery, muffler, am/fm 8 track stereo, good cond, best offer over \$1500. Ext. 2874, 289-8459 after 5:30.

71 GREMLIN - Good running cond. \$800. Ext. 3854, 928-4270 after 7.

68 DODGE CORONET - 2 dr hdtip, V/8, ps/pb, auto, rebuilt in '74, high mi, but runs. \$250. Weeks, Ext. 2617, 751-1149.

68 CHEVY IMPALA - V8, 4 dr, ac/ps/pb, automatic, good tires, engine needs work. Make offer. Joe, Ext. 2321.

72 VEGA HATCHBACK - New engine, body excel. \$995. J. Davis, Ext. 4504, 473-1523.

63 CORVAIR MONZA - Excel cond, absolutely no rust or dents, 140 hp, 1968 eng, 4 spd trans, mechanically perfect, only 49,000 mi. Joan, 399-2084 eves.

55 T-BIRD - Fully restored. \$4000. Joan, 399-2084 eves.

70 PONTIAC - Bonneville fully equipped, excel cond, luxury car, gets 18 mpg, \$1200 or best offer. Joan, 399-2084 eves.

54 FORD - Glass top, body excel, \$1500. Joan, 399-2084 eves.

66 VISTA CRUISER - V8, ac/ps/pb. \$300. 269-6747.

66 FAIRLANE WAGON - V8, auto, 120,000 mi, good mech & interior cond, light body rust, 21-24 mpg. \$450. Paul, Ext. 3277, 298-4985.

72 VOLVO WAGON - 145, dark green, standard shift, luggage rack, trailer hitch w/electric, 46,000 mi, 2 new steel belted radials. \$3000. 473-4491 after 6.

69 CADILLAC - Sedan de ville. \$940. Ext. 3267, 473-2594.

74 BMW 2002 - Orange, 30,000 mi, 4 spd, extras, excel cond. Asking \$5400. W. Bottcher, 286-1649 eves.

60 FORD - Handyman's special. \$100, good running cond, low mi. Ext. 3325, 289-9411.

2 RIMS - 13", 5-hole, \$3; (2) 15" VW, 5-hole, \$5. O. Booker, Ext. 4719, 727-5912.

74 VOLVO - 142, 4 spd, am/fm cassette stereo, mint cond, must be seen. 698-5558 after 6.

74 COMET MERC - Good cond, ac/ps, radio, 6 cyl, radials, rear window def, decor 9rp, standard trans. \$2700. 981-6211.

71 PLYMOUTH - Custom Satellite, at/ac, pb, ps, new tires, 44,000 orig mi, excel cond. Ext. 2982, 588-1713.

HURST SHIFTER - 4 spd competition plus, off a Camaro Z-28, excel cond. M. Kinney, Ext. 4316, 924-3783.

**Boats & Marine Supplies**

17' GRADY TRI-HULL - White, 1969, 100 Evinrude, excel cond, extras, w/trailer. \$1900. 286-1793.

18' LYMAN - 4 cyl inboard, pleasure boat, very good cond. \$700. Rich, 289-5235.

## Classified Advertisements

### Boats & Marine Supplies

BOAT FENDERS - Mooring magic, 8"x20", \$9; poly-poly 11"x26", \$15; Fendaire 8"x30", \$12.50. Bill, Espensen, Ext. 3992.

8' SAILING DINGHY - Atlantic sailing, cost \$325, sell for \$175. 472-0552 after 5.

18' THOMPSON - In/outboard, rebilt eng, new manifold, many accessories, Cox tandem trailer w/elec, winch, A-1 cond. O. Booker, Ext. 4719, 727-5912.

26' VIRICHSEN LAPSTRAKE - 1" mahogany w/oak ribs, solid boat in water, 215 hp marine eng. \$1600. firm. 727-5214 after 4.

14' JOHN DORY - Johnson motor, trailer, fiberglass, used twice. \$850. 732-8767 after 2.

17' SAIL BOAT - Windmill w/1974 trailer. \$500. 286-9711 after 7.

14' RUNABOUT - 35 hp Evinrude, extras. \$250. 981-0840 after 5.

### Miscellaneous

71 TRADEWINDS TRAILER - Hardtop, sleeps 8, equipped w/awning. \$1200. 588-5688 after 5.

GE DISHWASHER - 1 pair colonial lamps. 981-6211 after 5.

SINK - Stainless steel, cabinet top, 1 compartment, double drainboard, faucets, spray hose & strainer. \$75. John, Ext. 2502.

REFRIGERATOR - Small 1940's, GE, good cond, perfect for apt or sm area. \$25. John, Ext. 2502.

LIONEL TRAINS - 1955 vintage. \$25. Mike, Ext. 3198.

11' SURF ROD - 1 piece, \$20. Mike, Ext. 3198.

STORM DOOR - Alum Jalousie, 3'x6'8", \$25; Magnavox portable stereo record player, \$25; 10 gal fish tank, \$6. Cal, Ext. 4047/4090.

TROPICAL FISH - Black mollies, 15¢ each, 5 for 60¢; 10 for \$1. Ext. 4400, 286-9784 after 6.

FISH TANK - 30 gal, all glass, power filter, lamp, gravel, heater. \$25. Jiri, Ext. 3589.

CAMERA - 35 mm, lens f 2/50, tele 4/135, case, flashlight. \$75. Jiri, Ext. 3589.

BABY ITEMS - Pak-a-poose carrier, \$5; twin stroller, converts to carriage, \$30. Ext. 3828, 751-7250.

TAPE RECORDER - Tandberg model 64, 4-track tape deck, excel cond. \$300. Ext. 3828, 751-7250.

WELBILT GAS STOVE - 30", oven not working, make offer, no reasonable offer refused. Joan, 399-2084 eves.

LAWN MOWER - 18" hand push, may need adjusting or sharpening, a bargain at \$5. Adams, Ext. 2011.

LADDERS - 2 extension trestles, 8', cost \$110.80 ea, 1 extension plank extends to 10', cost \$40, will sell for \$150. 472-0552 after 5.

8' SPRUCE - Beautifully shaped, freshly dug. \$30. 472-0552 after 5.

HUMIDIFIER - Full size, console style, excel cond, water capacity indicator, variable spd fan. Orig price \$100, sell \$60. Ext. 2907, 698-0576.

TYPEWRITER - 15" carriage office style & typewriter desk, attractive office style, 43"x24". \$65 for both. Ext. 4240, 286-0295.

VEGETABLES - Grown on premises, peppers, eggplants, tomatoes, Ital plum tomatoes for canning, in bushel and 1/2 bushels. Brookhaven Hamlet. 286-0024.

CLARINET - In good cond, for a student. 744-8917.

ROCKING CHAIR - Small bedrm size, no side arms, old mahogany, good cond. \$10. 472-0552 after 5.

WINDOW CORNICES - One triple, \$10; double, \$8; 4 singles, \$5 each, excel cond. 472-0552 after 5.

ROLLER RINK SKATES - Chicago precision, ladies size 8 1/2 white w/case, excel cond. \$15. 472-0552 after 5.

27" MEN'S BICYCLE - 10 spd Halco, good cond, new tires, \$50 or best offer. Glenn Taber, 475-3415.

SOFA BED - Black, brown, beige & white plaid, dark pine arms, 2 yrs old. \$125. 289-8212.

CAMERA - Miranda autosensorex EE, 50 mm f 1.8 lens, 135 mm f 2.8, accessories, \$250. Ext. 3600, 289-8182 eves.

NIKONOS II - Underwater camera, 35 mm, f 2.8 lens, used once. \$150. Ext. 3600, 289-8182 eves.

3.5 HP MINI BIKE - Great for young beginners. \$90. Ext. 3600, 289-8182 eves.

SPINET ORGAN - Lowery Holiday, model, upper-lower manual pedals, excel cond. \$400. 286-8249.

RUGS - 1 purple 12'x18', \$25; 1 red 9'x12', \$20. Ext. 2874, 289-8459 after 5:30.

GENERATOR - 3000 watt Hobart, heavy duty, good cond, needs motor. \$100. 727-1962, 369-2075.

CORNER DESK - White, dining rm set, 6 high back chairs, 6' leaf, baseboard heater. Ext. 3688.

SPANISH DINING RM - Table, 6 chairs, lg break-front. \$850. 399-2945.

WINNEBAGO CAMPER - Cap, fully paneled inside, for 8' truck body, full back door. \$300. W. Schlicht-croll, Ext. 3284, 924-6172 after 5:30.

RUGS - Purple, 10'x17', slightly worn, \$20; red, 9'x12' good cond, \$30. Ext. 2874, 289-8459 after 5:30.

DRUM SET - 4 pc by Ludwig w/Hi Hat cymbals. Mike, 878-2486.

FOR ADOPTION - Assorted long-haired kittens: Carol, 473-6934.

KITCHEN SET - Wrought iron table, formica top, 4 tubular steel chairs. Ext. 3392, 475-8330.

DINING RM CHAIRS - (5) Antique Hitchcock thumb-back, fiber-rush seats, natural finish. \$250. 286-0615.

CHANDELIER - Starburst style, 24" in diam, very good cond. \$10. M. Kinney, Ext. 4316, 924-3783.

ELECTRIC BROOM - Vacuum, Singer w/water suction attachment & bags, excel. \$10. M. Kinney, Ext. 4316, 924-3783.

BEDRM SET - Maple, double bed, 2 dressers, nightstand, colonial. 286-0615.

SEWING MACHINE - Morse zig-zag, w/3 drawer cabinet, deco stitches, button holes, like new. \$140. 589-6151 after 6.

BEDRM SET - Contemporary, bookcase headboard, excel cond, reasonable. 473-4612.

LEAF SHREDDER - Sears 3 1/2 hp w/bagging attachment, excel cond. \$95. Ralph, Ext. 4171.

BABY CARRIAGE - Large coach type, good cond. \$25. Ralph, Ext. 4171.

CHAIRS - 2 maple & 1 matching rocking chair, excel for family or rec room. \$15. ea. Bill, Ext. 2022.

AUTO INFANT SEAT - GM, like new. \$18. Ralph, Ext. 4171.

GARAGE SALE - Sat & Sun, Sept 11 & 12, noon to 4, you name it, we've got it, garden items, toddlers, childrens items, household items. 64 Greenhaven Drive, Port Jeff Stat. Lynn, Ext. 4218.

STEREO - \$100; barbells, \$10; misc tools, auto creeper, \$5; Bose 901 kit & enclosures, \$200; gold drapes, \$40. GE side/side, \$150. Herb, Ext. 3403.

TYPEWRITER - Sears portable for back to school. \$25. Ext. 4156.

STEREO HEADPHONES - Units were returned under warranty for loose wire in plug, etc. & are checked & repaired. \$5/pr. Al Campbell, Ext. 3354.

TV - RCA Vista transistorized portable TV, 12" b/w, alpine white case, clean, like new. \$60. Al Campbell, Ext. 3354.

TRANSCEIVER - Lafayette model 750, 6 meter ham band mobile, op 12 volts, same case as mod 625 cb. \$35. Al Campbell, Ext. 3354.

POOL LADDER - 3 step s/s for in-ground pool. \$35. Shu-Chen Dang, Ext. 3850, 929-4318.

FIRE WOOD - Close to a cord of locust wood partially cut. Pick up for \$20. Geo Childs, 732-6256.

STEREO - Panasonic 8-track player, component used 1 mo, in orig carton. \$45. Al Campbell, Ext. 3354.

TRAVEL TRAILER - '71 Terry self-contained, very clean, ac, awning, sleeps 6, extras. \$2600. 728-0153.

TAPE RECORDER - Panasonic, reel-to-reel, stereo \$30. Hank, Ext. 3935.

DIGITAL CLOCK-RADIO - \$25. Peter, Ext. 4498.

BICYCLE - Girl's 20" hi-rise, banana seat, good cond. \$25. Joyce, 744-1876.

STOVE - 36" GE electric, all new top burners, very good cond. \$50. Ext. 4619, 929-6034.

DOWN-FILLED CHAIR - Antique satin cover in good cond. \$25. Mary, Ext. 2345, 924-8523 after 5:30.

REDWOOD TABLE - Benches; studio couches, bed. Best offer. Ext. 3121.

RUG - 9x12 Karastan apple green w/pad; white wicker headboard, double bed size & harvad frame. Ron, Ext. 3395, 928-8149.

DINING RM SET - Drexel contemp, walnut table, 6 chairs, leaves & pads, buffet, excel cond. \$450. Phil, Ext. 4518, 751-9038.

RUG - 10x10, gold, clean, like new. \$28. Jiri, Ext. 3589.

FISH TANK - 30 gal, all glass, power filter, lamp, heater, gravel. \$25. Jiri, Ext. 3589.

CAMERA - 35 mm, lens f 2/50, case teleboj, 4/135, elec flashlight. \$80. Jiri, Ext. 3589.

PERCOLATOR - Old fashioned 20-cup, \$5; Corning Ware coffee pot warmer stand, \$2; Lady Sunbeam bouffant cap hair dryer, \$10. Ext. 4156.

YORKIE PUPPIES - 3 males, 16 wks, health certificate, top quality, sturdy, AKC, ready to go. Daly, Ext. 2902, 475-2627 eves.

BIKE - Women's 10-spd, 21" frame, Sutton by Royce Union, used once, brand new cond. \$95. Ext. 4060.

STEREO CARTRIDGE - Shure V15 type II, very good cond. \$40. Hans, Ext. 4581, 281-5563.

HAND PLANE - Stanley, 18", new \$20; 50' roll 6' high chicken wire, new, \$10. Hank, Ext. 3848.

ORGAN - Wurlitzer 4573, (2) 61 note manuals, (1) 25 note manual, 25 note pedals, 3 yrs old, perfect cond. Present cost \$5200, will sell for \$3000, firm. Phil Warner, Ext. 4636.

REFRIGERATOR - Sears Coldspot, model 62, frostless, 16.6 cu ft, white, right hand door, excel cond. Asking \$120. 286-0384.

COLOR ANTENNA - JFD color log periodic vhf/fm, dual boom, 125 mi range, very good cond. \$25. Hans, Ext. 4581, 281-5563.

DEEP WELL PUMP - 1 hp Gould. Asking \$35. Bob, Ext. 4551.

SURFBOARD - 5'10" bungler, good shape, must sell. \$40. Brian, 286-2093.

SKIIS - Rossignol Stratix 112 skiiis, never used, bindings never mounted, reg. \$160, must sell \$65. Brian, 286-2093.

BEDRM SET - Mahogany, twin bed w/men's dresser & women's dresser w/mirror, \$175. 727-4515 any-time until 10 pm.

FOR ADOPTION - White spayed female Samoyed, 1 1/2 yrs old, excel w/children. Saxon, 929-6969.

INFANT FURNITURE - In good cond, reasonable prices. 862-8713.

RUGS - Gulistan wool, beige, like new, 9x15, 7x9 & 3 hall runners. \$250 firm. 878-1574 after 6.

BATHRM SINK - W/faucets, \$5. Bill, Ext. 4526.

SPLITTING MAUL - 10 lbs, purchased recently, used once. \$17. 727-5527 after 5.

CAR STEREO - 8 track, like new w/lock mount bracket. \$30. 589-1069.

36" GAS STOVE - Sears Kenmore, top oven & broiler, lg storage area. Asking \$100. George, Ext. 2486, 727-7724 eves.

CHEST OF DRAWERS - Men's, walnut. \$45. 727-4515.

TENOR SAX - Selmer, foreign made, good. \$150. Rhodus, Ext. 3284, 924-3522.

MEN'S 10 SPD - Royce Union 19", never used. \$60, orig \$107. 269-6344.

SEWING MACHINE - Singer elec, table model, old, good cond. \$50. Hugh Rhodus, Ext. 3284, 924-3522.

SEWING MACHINE - New Willard, trendle, oak cabinet, good. \$55. Hugh Rhodus, Ext. 3284, 924-3522.

SEWING MACHINE - Apartment elec, good cond. \$50. Hugh Rhodus, Ext. 3284, 924-3522.

DOWN SLEEPING BAG - Excel cond, European made, 4 season bag, \$60. Carol, Ext. 2345, 744-8478 eves.

CLASSICAL GUITAR - Excel cond. \$150. 744-8478 eves.

67 APACHE TRAILER - Pop up, 1000 lbs, excel cond, canvas like new, sleeps 6. \$450. Fred, 289-1041.

YORKSHIRE TERRIER PUPS - Male, 18 weeks, 1st shot, health certificate, top quality, sturdy AKC. Daly, Ext. 2902, 475-2627 eves.

STEP DOWN BUMPER - 72 pickup. Bob, 475-4382.

WOMEN'S BIKE - Excel cond. \$20. Ext. 4719, O. Booker, 727-5912.

MOTORCYCLE - Mechanic's special, 74 Zundapp, 125 cc trail bike. \$200 as is. 727-0092 after 6.

WORKBENCH - 60"x28" w/2 shelves, \$10; machinist vise, \$5; 1/4 hp motor, \$10; 9" plane, \$4; 14" stillson, \$2; step ladder, \$4. F. Cowan, 286-0508.

ROYAL BLUE - 2 pieces 11'x19' & 9'x12' pads incl. \$50 takes all. 751-8158.

DISHWASHER - Butcher block top, portable, convertible, used 11 months. \$200. Ext. 3128, 473-8566.

BUFFET - W/china top, solid walnut, oiled finish, \$125. Ext. 3128, 473-8566.

HI-RISER - Castro, w/brown cover & bolster, excel cond. \$100. Ext. 3128, 473-8566.

### Real Estate

**Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.**

### For Sale

SAYVILLE - Bldg lot, 7500 sq ft, overlooking golf course. \$9500. 289-0413.

MASSAPEQUA - 100x100 corner bldg plot, waterfront, util in street - trees. 727-7769.

WADING RIVER - 4 bedrm colonial, den w/fp, garage, carpeting, landscaped, 1/4 treed acre, deeded beach rights. Sacrifice, \$50,000. 929-8129.

CORAM - 4 bedrm colonial, country kitchen, formal dining, 1/2 acre, lg patio, basement, garage, landscaped. \$38,900. 698-2030.

HOLBROOK - Or rent, 2 bedrm condo, 2 level, 1 1/2 baths, dishwasher, washer & dryer, extras. Low 30's. 732-5711 after 6.

BELLPORT VILLAGE - 4 bedrm, den, eat-in-kitchen, carpeting, tiled baths, 100'x140'. Asking \$45,000. 286-3970.

1 ACRE BLUE POINT - Cul-de-sac, great for horse lovers, hobbyist. Ext. 3688, 363-7032.

### Classified Ad Policy

**Deadline is 12 noon Monday for publication Friday of the same week.**

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

- For Sale: Auto & Auto Supplies  
 For Sale: Boats & Marine Supplies  
 For Sale: Miscellaneous

- Wanted  
 Carpools  
 Lost & Found  
 Services

Check  the heading applying to your ad. Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature..... Life No..... Ext.....

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).