

## Of Special Interest

"English as a Second Language" on the beginning, intermediate and advanced levels, will be offered at Stony Brook this fall during the day and in the evening, beginning September 7. It is not necessary to be a regular student at Stony Brook to enroll. The fee is \$60 per course. Registration is August 30 through September 2, from 10 a.m. to 3 p.m., in room 124 of the Humanities Building. For further information, call Susan Chanover, 246-6050.

"Science and the Future of Man," the University's interdisciplinary evening course in continuing education, will be taught for the fall semester only, by Dr. Max Dresden, Professor of Physics, Executive Officer of the Institute for Theoretical Physics and one of the most popular teachers at Stony Brook.

Dr. Dresden guarantees that "spending an evening or the whole semester at this will be much more rewarding and definitely more entertaining than watching television." The 15 lectures will form the basis for an examination of social and political issues in which science plays a role.

Each session will begin with a lecture lasting about 50 minutes, followed by a short discussion period. The lecture-discussion part of the course is open to the public with no registration or admission fee required. Those registered for graduate credit will go to meet in separate group discussions led by Stony Brook faculty.

The course is scheduled at 7 p.m. on Tuesdays from September 7 to December 14 at the University's Lecture Center, adjacent to the Humanities and Administration Buildings.

## Tune In!

#420

Is the Laboratory going to do anything to protect its employees against swine flu?

Answer:

The Federal Government has decided definitely to proceed with the national flu vaccine program, and the Laboratory is consulting with local health authorities to evaluate how BNL might participate. It is expected that definitive information for employees will be provided in the *Bulletin* in the next several weeks.

## To MIT RadLab Alumni

A reunion of former staff members of the M.I.T. Radiation Laboratory is planned for November 15, and a small committee is working to put together an up-to-date mailing list. All "alumni" are asked to call H. Kuper, Ext. 3311 to make sure you are listed.

## CREF Unit Values

1975

|           |         |          |         |
|-----------|---------|----------|---------|
| January   | \$30.67 | February | \$32.80 |
| March     | 33.77   | April    | 36.12   |
| May       | 38.07   | June     | 39.88   |
| July      | 36.81   | August   | 35.86   |
| September | 34.31   | October  | 35.89   |
| November  | 36.61   | December | 36.34   |

1976

|         |         |          |         |
|---------|---------|----------|---------|
| January | \$40.31 | February | \$39.76 |
| March   | 40.75   | April    | 40.10   |
| May     | 39.69   | June     | 41.60   |
| July    | \$41.21 |          |         |

## New Problem Areas In Hypertension Under Study

Twenty-three million Americans suffer from high blood pressure (hypertension). Brookhaven's Medical Department has been researching this area for a number of years and the hypertension group, under the leadership of Dr. Junichi Iwai, is continuing the efforts pioneered by the late Dr. Lewis K. Dahl.

Dr. Dahl's work, spanning 25 years, demonstrated a strong correlation between the degree of salt intake and the prevalence of hypertension in human beings. This research is being continued but, in addition, two elements prevalent in 20th century life - cadmium and stress - are also being studied in determining the causes of hypertension.

Edward V. Ohanian, a physiologist, has just completed a series of experiments on rats using a toxic metal and concludes that "current environmental cadmium pollution is not an immediate concern to all individuals, but there may be a genuine health hazard to sensitive individuals with a family history of hypertension."

Richard Friedman, a psychologist, who has been concentrating on the relationship of emotional stress to hypertension, says, "it appears that whether a psychological stress elevates the blood pressure depends not only upon the kind of stressful situation, but also on the genetic makeup of the organism exposed to the stress."

In both the cadmium and stress experiments, establishment of the genetic factors in susceptibility, provided an explanation for some of the conflicting data in previous experiments at other laboratories.

Central to the hypertension experiments at Brookhaven are two strains of rats, one called S-strain, initially bred to be sensitive to salt-induced hypertension, and the other, R-strain, bred to be resistant. Because they responded to other stimuli which caused the same way they responded to salt, the evidence indicated that the genetic makeup of an animal is critical in determining whether the animal will develop hypertension when subjected to a suitable stimulus.

When subjected to cadmium, a metal which is used extensively in industry and is a substantial contributor to air pollution, the S-strain rat, but not the R-strain, exhibited a mild rise in blood pressure and kidney damage. Significantly, the experiments indicated that only a small concentration of cadmium is needed to induce hypertension. The mild hypertension induced in the S-strain rats resembles essential hypertension which promotes heart attacks and strokes in humans.

The S-strain rats accumulated 30 micrograms of cadmium per gram of kidney. The same accumulation is present in the average American, per gram of kidney, by the time he reaches his early thirties, without any specific known exposure.

According to Ohanian, inhaling cadmium poses a greater threat to the individual than ingesting it. While the body absorbs one-half of the cadmium which enters through the lungs, it absorbs only ten percent of the swallowed cadmium. Another potential hazard with respect to cadmium involves smoking. One pack of cigarettes contains 16 to 24 micrograms of cadmium. A smoker not only absorbs two to four micrograms per pack through his own lungs, but can also contaminate an en-

tire roomful of people with the smoke released into the air.

In earlier experiments, to assess the role stress plays in hypertension, the researchers exposed both groups of rats to identical situations. The animals were required to press a lever to get food pellets. Occasionally, however, pressing the lever brought on electrical shock.

According to Friedman, "This kind of conflict in which particular activity has both strongly positive and negative attributes is considered by many psychologists to be the most distressful aspect of environmental experience."

Both groups of rats were exposed to the stress for six hours daily over 26 consecutive weeks. At the end of the test period, the investigators found that the daily number of lever presses had dropped markedly, to the same level in both groups, suggesting that both strains felt the stress equally. The difference in blood pressure response, however, was considerable. During the experiment, the S-strain rats had an average systolic blood pressure of 164 (measured in millimeters of mercury, or 164 mmHg while unstressed S-strain "control" animals averaged 144 mmHg. R-strain rats by contrast, averaged 126 mmHg during the experi-



Hypertension researchers Richard Friedman (foreground) and Edward Ohanian.

ment while R-controls showed average levels of 127 mmHg).

Although the hypertension group feels that there is not yet enough evidence produced by the experiments to indicate that stress is a primary factor in hypertension, it can cause moderate and prolonged blood pressure elevations. These studies are continuing.

The role of cadmium is also the subject of ongoing research. The hypertension team is trying to determine the mechanism relating cadmium build-up in the kidney and liver to high blood pressure. The cadmium levels in these organs were found to be higher in the sensitive rats than in the resistant rats.

Ohanian and Gaston Schaechtelin, a biochemist in the group, are trying to isolate



Junichi Iwai, head of the hypertension research team.

and characterize metallothioneins - proteins that are synthesized by mammalian tissue in response to cadmium injection or feeding. These proteins chemically bind cadmium and then gradually release it for excretion from the body. A build-up is caused when the binding rate of cadmium far exceeds the excretion rate.

The research team believe that one of the genetic differences between the S-strain and R-strain rats may be expressing itself on this level. They feel that the difference in cadmium-binding between these two genetic strains may be due to a difference in the concentration of metallothioneins, or a difference in the cadmium-binding ability of the metallothioneins.

Experimental work is now underway to study the effects of life-long exposure to sub-toxic cadmium doses. In addition, future experiments are planned to investigate the relationship of cadmium, lead, zinc and selenium, not only to hypertension, but to a series of other cardio-pulmonary diseases.

## For Storm Injured Trees

Hurricane Belle left many damaged trees in her wake and the Cooperative Extension Association of Suffolk County has a program of first aid:

Severely affected trees may be fertilized and watered to help overcome scorch on leaves. Fertilizer applications should be made in the spring or late fall. Proper watering by saturating the soil to a depth of six inches or using a root needle is especially important, and once every two weeks during dry periods is generally sufficient. Light, general pruning of trees and shrubs is recommended to help reduce the total foliage load that must be supported by the root system. Dead and dying branches should also be removed. All pruning tools should be disinfected by dipping them in alcohol after each cut. Protect the surface of a large wound until the bark grows over it, by applying orange shellac, asphalt paint or other type of tree wound dressing. Support trees, shrubs or evergreen bushes with wire encased in a hose where it touches the bark. All loose bark should be trimmed.



### A Footnote To History

In 1944 a number of officers stationed at Camp Upton were lamenting the fact that they had failed in their efforts to be transferred overseas. Someone suggested that they build a monument to the thousands of men they had processed through this induction center, many of whom would be going into battle. Out of these discussions, an inscription was created and the words were subsequently engraved on a stone marker, donated by a friend of the Chaplain who was in the monument business.

The words were, "In Memory of the Departed Mice Who Became Men." The marker was placed in concrete at the base of the flagpole in front of the Officer's Club (now the Center). There it remained until the 1950's when it was relocated to a spot in front of Police Headquarters and eventually became covered with grass, largely forgotten.

One of the officers who took part in this project was Major Donald E. Mallory, then Post Engineer at the camp (1942 to 1946), and later head of Plant Maintenance at BNL from 1946 to 1969.

The Laboratory is indebted to Mr. Mallory for the historical data concerning this monument. In a recent letter to Lou Harson, Principal Architect of BNL, Mr. Mallory said, "It seems to me that it (the marker) belongs at the flagpole and that the Bicentennial year would be a fitting time to do it. Many men who went through Camp Upton never returned."

Police Headquarters will be modified early in Fiscal Year 1977 as part of a Safeguards and Security upgrading. This work will include the area where the marker is now located, and it will then be returned to the flagpole at the Center. Since the marker needs some explanation, a plaque will describe it as follows:

BNL  
AUI

This marker was created by officers at Camp Upton in 1944 when the area was an induction center for the U.S. Army. It is part of the history of this site and is rededicated to the 600,000 men who passed through here in the service of their country.

1976

### French Film Featured

Next Wednesday, August 25, at 8 p.m. in Berkner Hall, the film "Thérèse Raquin" will be shown. This presentation is sponsored by the French Group of BNL, and all members of the Laboratory community, including summer visitors, are cordially invited. Those who are not members of the French Group will be asked for a donation of \$2 to help cover the cost of film rental.

"Thérèse Raquin," produced in 1953, is an adaptation of the novel of the same name by Emile Zola. It was directed by Marcel Carné, and features Simone Signoret and Raf Vallone. The film has French dialog with English subtitles.

### Pool Information

The fall schedule, effective September 7, through November 30, 1976, is as follows:

|  |                                   |
|--|-----------------------------------|
| <b>Weekdays</b>                                |                                   |
| 11:30 a.m. to 1:30 p.m.                        | Employees only                    |
| 5:00 p.m. to 9:30 p.m.                         | Employees, Family Members, Guests |
| <b>Monday, Aug 30 - Friday, Sept. 3 "only"</b> |                                   |
| 1:30 p.m. to 9:30 p.m.                         | Employees, Family Members, Guests |
| <b>Saturday &amp; Sundays</b>                  |                                   |
| 1:00 p.m. to 6:00 p.m.                         | Employees, Family Members, Guests |

Fall season tickets will go on sale at the pool beginning Monday, August 30. Prices for the 3-month period are \$5 for individuals, \$10 for families.

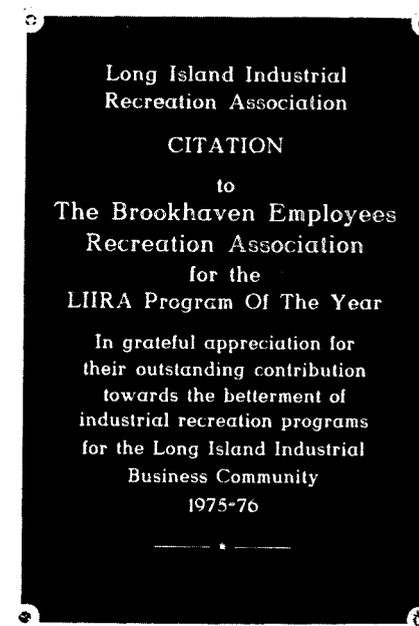
Summer season tickets will be honored through Sunday, September 5. The pool will be closed on Monday, September 6, a Laboratory holiday.

#### 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.

### BERA Recognition



The BERA Executive Board takes great pride in showing off this handsome plaque presented to the Association by the Long Island Industrial Recreation Association. The presentation was recently made to Board President Kenneth Batchelor by Oskar Frowein, Past President of LIIRA. A permanent display location is now being considered.

### Football Notes

Ed Taylor

The 1976 BNL Touch Football Season is almost here. The league is a touch league with no blocking and minimum body contact, so anyone can play without any real fear of getting hurt. The season will tentatively start Thursday, September 16 and end November 4. Games will be played every Thursday at the Recreation Park. Game time is 5:30 p.m.

Anyone interested in joining a team may put his name in the Player's Pool by contacting Ed Taylor, Ext. 4126. New teams are also welcome. Team entry blanks are available at the BERA Sales & Services Office in the Cafeteria.

### New York City Train Trip

The Hospitality Committee is planning a group railroad trip to the city Wednesday, September 1. Departure will be at 8:32 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under 6 years ride free. Reserve a ticket by sending your fare through the U.S. Mail to P.O. Box 322, Upton, New York, no later than August 25. Make checks payable to "Cash." Refunds will be made only if cancellations are received before noon on August 27.

Any and all are welcome to participate. Participants must leave as a group on the above scheduled morning train but are free to return to Patchogue on any train leaving New York the same day.

### Food Of Many Nations

Each year the BERA Summer Recreation Program staff hosts an International Picnic of on-site families. This year's event was a huge success. Delicacies from various lands combined with old favorites from the United States delighted the many guests who dined on the lawn outside the Recreation Building. Warm, friendly conversation filled the clear evening air to make the night a pleasure which will be remembered for some time.

### Races At The Pool

"Put a cup on your head and swim across the pool." Those were the instructions given by lifeguard Mary Grace Lazzaro to four through nine year olds last Friday in the BERA special event at the swimming pool. As the little children attempted this feat in the shallow end, the older children were racing against each other in the deep end. They had to swim while holding a ping pong ball on the end of a spoon.

Dexterity was the word of the day as only those with a steady head and nerves of steel came out victorious.

Winners were:

#### Ping Pong in Spoon

10 and over

- 1st - Maureen McNerny
- 2nd - David Humphry
- 3rd - Cathy McTague

#### Cup Races

7-9

- 1st - Michelle Greenhouse
- 2nd - Kumud Narang
- 3rd - Sandra Cowley

4-6

- 1st - Sharon Thomas
- 2nd - Daryl Elmore
- 3rd - Don Brown

### Arrivals & Departures

#### Arrivals

|                  |              |
|------------------|--------------|
| Gregory G. Galdi | App. Science |
| William T. Pratt | App. Science |
| Pavel Rehak      | Physics      |
| Daniel P. Serwer | App. Science |
| Anita L. Swoboda | App. Science |

#### Departures

|                       |              |
|-----------------------|--------------|
| Jill C. Bonner        | App. Math    |
| George R. Kalbfleisch | Physics      |
| E. Boyd Osgood        | Physics      |
| Jack G. Refling Jr.   | App. Science |

### Union Meeting

There will not be a meeting of the IBEW this month. Next meeting is scheduled for September 23, 1976.

### Cafeteria Menu

#### Week Ending August 27, 1976

|                                   |      |
|-----------------------------------|------|
| <b>Monday, August 23</b>          |      |
| Corn Chowder                      |      |
| Beef Liver & 1 veg.               | 1.10 |
| Scrambled Eggs, Sausages & Fr.Fr. | 1.05 |
| <b>Tuesday, August 24</b>         |      |
| Beef Noodle Soup                  |      |
| Knackwurst & Sauerkraut           | 1.05 |
| Sauerbraten & Potato Pancake      | 1.30 |
| <b>Wednesday, August 25</b>       |      |
| Cream of Potato Soup              |      |
| Beef Chop Suey on Rice            | 1.05 |
| <b>Special</b>                    |      |
| Davy Jones Fish Fry               |      |
| \$1.40 plus tax                   |      |
| <b>Thursday, August 26</b>        |      |
| Chicken Vegetable Soup            |      |
| Cheese Ravioli w/1 veg.           | 1.00 |
| Roast Chicken w/Stuffing & 1 veg. | 1.10 |
| <b>Friday, August 27</b>          |      |
| Fish Chowder                      |      |
| Spaghetti w/Clam Sauce            | 1.00 |
| Breaded Pork Chops & 1 veg.       | 1.25 |

**BROOKHAVEN BULLETIN**

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**In Memoriam**

Ralph Furness, an electrician, who joined the Laboratory in 1964, died in Smithtown General Hospital on August 12, 1976, at age 60.

**Rifle/Pistol Club**

Action at the trap range is going full swing.

Out of 25 birds, Chuck Tierney shot 22, Phil LaBosci 19, Vinnie Lettieri 13 and John Zahra 10.

All Club members are welcome to try their skills. Don't miss out on the fun. Action starts at 5:15 p.m. every Monday night, weather permitting.

—J. Zahra

**Softball**

Ed Taylor

**League I**

Games postponed. Wet fields.

**League II**

**Bubble Boys 5 (4-1) - Six Pax (3-2)**

Jack Sondericker pitched well and Ken Asselta fielded well for the Bubble Boys.

**Dirty Sox 13 (2-3) - Metallurgy 5 (1-4)**

Homeruns were hit by Mike Dag and Walt Brooks of the Dirty Sox and Lou Sneed of Metallurgy.

**League III**

**Sweathogs 21 (1-4) - Medical 10 (2-3)**

Rick Reaves, making his mound debut, pitched the Sweathogs to their first victory of the season. Rick also batted in 3 runs in the game. Oother standouts for the Sweathogs were Dan MacGuire (4 R.B.I.) and John Scalice (homerun and 3 R.B.I.)

**Circuits 13 (5-0) - Phoubars 12 (2-3)**

A hit by Mike Zepmisl in the 7th inning drove in George Hughes with the winning run. "Woody" Greenlaw and Joe Klemish also got timely hits for the Circuits.

**League IV**

Games postponed. Wet fields.

**League V**

**Turkeys 21 (2-2) - Odd 15 16 (2-2)**

Four double plays turned over by the Turkeys and one by the Odd 15, kept the game very lively. Dan Collinson was surprised by a fantastic catch by Turkey right fielder Gail Waite. A good game was played by both teams.

**Diamonds 17 (2-2) - T.N.T. 4 (1-3)**

Homeruns were hit by Gary Goldstein and Ken Asselta of the Diamonds. Linda Asselta, Pat Manzella and Janet Helmig all played well in the field for the Diamonds.

**Oh Kays 29 (4-0)**

**Balls & Strikes 3 (1-3)**

Debbie Antonio pitched and hit well for the Oh Kays. Jackie Larrie, Rosemary Mack, Sydell Lamb and Kay Hunt also played well for the winners.

**A New Use For The Accelerator**



The "particle accelerator" about to be demolished by the Spider-Man. Reprinted with permission. Copyright © 1976 by Marvel Comics Group. All rights reserved.

Brookhaven has now entered the popular lore. The July edition of "The Amazing Spider-Man," a comic book, has the Laboratory as the locale for the latest super battle of the hero. The scene is set this way: "Brookhaven National Laboratory, on Long Island's thriving north shore: usually, these quiet buildings are merely devoted to extensive research in the field of Atomic Energy - but today they are an Arena, a burgeoning battlefield destined to witness combat of a most unlikely nature."

The story line is hard to follow, but in the course of the action, the Spider-Man destroys "the particle accelerator" with a few well aimed kicks. Later, he feels that this machine would be most useful to destroy the arch-villain and shouts, "let's put this cockamamie gizmo back together again!" This is done in a twinkling and the villain "is caught in the accelerated energy field!" Much to everyone's chagrin, the villain comes out of this experience greatly reinforced and the episode ends on a note of considerable concern about the villain's increased prowess.

**Post Olympics?**

Last Friday's BERA special, Track and Field Day, looked like the Olympics all over again. Children of the morning recreation program, competed as fiercely as world record holders as they threw the shot put, ran the marathon and sprints, and tried their skills at sack racing and wheel barrowing. Competition was rugged so the winners were no less proud than the gold medalists at Montreal.

Trophies and ribbons were awarded by counselors Rich Parsons, Mary Grace Lazzaro and Liz McCafferty. Triumphant were:

**10 & Over**

**Sack Race**

- 1st - Kerrie Carew
- 2nd - Margaret McTague
- 3rd - Andrew Collins

**40 Yd. Dash**

- 1st - Adrian Collins
- 2nd - Kerrie Carew
- 3rd - Margaret McTague

**Wheel Barrow**

- 1st - Ido Gileadi
- Yoav Gileadi
- 2nd - Margaret McTague
- Cathy McTague
- 3rd - Adrian Collins
- Heather Campbell

**Discus**

- 1st - William Kavanagh
- 2nd - Heather Campbell
- 3rd - Bobby Achey

**Marathon**

- 1st - John Carew
- 2nd - Ido Gileadi
- 3rd - William Kavanagh
- Phillipe Sens

**Sack Race 7 - 9**

- 1st - Patrick Campbell
- 2nd - Sandra Cowley
- 3rd - Sally Moskowitz

**40 Yd Dash**

- 1st - Sandeep Narang
- 2nd - Uzi Gileadi
- 3rd - Kamud Narang

**Wheel Barrow**

- 1st - Sandra Cowley
- Kevin Cowley
- 2nd - Linwood Ma
- Ricky Achey
- 3rd - Paul Kisslinger
- Joe Carew

**Shot Put**

- 1st - Uzi Gileadi
- 2nd - Shiuga Yasulawa
- 3rd - Sally Moskowitz

**Marathon**

- 1st - Kamud Narang
- 2nd - Shiuka Yasulawa
- 3rd - Ricky Achey
- 4 - 6

**Sack Race**

- 1st - Maureen McTague
- 2nd - Delphine Grynszpan
- 3rd - Yoshiko Watamabe

**40 Yd Dash**

- 1st - Alehandro Vera
- 2nd - Taka Tgi
- 3rd - Yuri Klopper

**Wheel Barrow**

- 1st - Delphine Grynszpan
- Yuri Klopper
- 2nd - Alehandro Vera
- Maureen McTague
- 3rd - Angie Dang
- Kaori Ido

**Shot Put**

- 1st - Jens Nittenberg
- 2nd - Natalie Highland
- 3rd - Randy Achey

**Tennis Awards Night**

The Tennis Committee is planning an Awards Party to be held in the Recreation Building on Tuesday, August 24, at 5:30 p.m. Trophy presentations will be made to the winners of the various events in the recent Laboratory Tournament. Those being honored are:

- Men's Singles** - Barry Auskern
- Women's Singles** - Shizue Iwai
- Men's Doubles** - Barry Auskern & Andy Kevey
- Women's Doubles** - Shizue Iwai & Yasuko Sanborn
- Mixed Doubles** - Mary Jane Stangby & Andy Kevey

A new perpetual trophy, "The Auskern Cup," established by friends as a memorial of the late Allan Auskern, will be presented to the winner of the Men's Singles competition, in this case his son, Barry Auskern. "The Merkle Cup," a trophy named in honor of the late Walter Merkle and awarded annually to the winning Men's Doubles team, will go this year to Barry Auskern and Andy Kevey.

Following the awards presentations, there will be a showing of Billie Jean King tennis films, and refreshments will be served.

Tennis players, tennis spectators, and even tennis haters, are welcome. If you have not already indicated your intention, but would like to attend, please contact Marge Stoekel, Ext. 2459, before 3:00 p.m. on Friday, August 20. There will be a \$1.00 charge (payable in advance) to cover expenses.

## 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.

182. OFFICE SERVICES ASSISTANT - Temporary position. Department of Applied Science.

183. TECHNICIAN - AAS degree in Electronic Technology to work on external beam facilities at the AGS. Assignment involves familiarity with power thyristor controlled power supplies, pulsed high current regulated power supplies, analogue and digital control circuits & beam instrumentation. Accelerator Department.

184. SENIOR PERSONNEL REPRESENTATIVE - BS degree or equivalent with experience in salary and wage administration and knowledge of group insurance. Personnel Division.

### Autos & Auto Supplies

72 FORD - Gran Torino wagon, good cond, auto, ac, ps/pb, 18,000 mi on rebuilt 351 eng. Best offer over \$900. Ext. 3524, 751-3885.

70 MAVERICK - 6 cyl, std shift, new brakes, clutch, tires, etc. \$500. Ted, Ext. 4163/4126.

WHEEL - (1) Oldsmobile mag wheel, 14"x7", \$12; (1) E78-14 tire, decent, \$7; (1) 12-volt battery, good, \$10. Ron, Ext. 2491, 473-5939.

72 CHRYSLER - Newport, excel cond, 49,000 mi. Ext. 4885.

73 PLYMOUTH - Satellite, 8 cyl, cond like new, 29,000 mi, brown. \$3100. Pete, 588-5083 after 5.

74 PINTO - Std, radio, heater, cassette stereo, low mi, excel cond. \$2100. 286-1062.

75 MAICO - Motorcycle, motorcross model 400 cc, new style forks. \$600 or best offer. 653-5989.

69 PLYMOUTH - Satellite, V8, ps, 2-dr, 65,000 mi, runs well. Roger, Ext. 3817 days, Ext. 3031 eves.

72 CHEVY - Nova, 2-dr, 6 cyl, std, new tires, low mi. Asking \$1495. Ext. 3525.

63 FORD VAN - Rebuilt 6 cyl w/std trans, wood paneled interior, fold out bed, radio, heater, new brakes, battery, gen, radiator, excel running cond. \$800. 929-4780.

69 MUSTANG - Mach I, 351 cu in, auto, ps/pb, ac, excel mech, clean interior, am/fm, 8-track. \$850. 724-6661.

69 TOYOTA CORONA - 4-dr, 88,000 mi, runs good, should go another 20,000 mi. \$500. Len, Ext. 4509. 473-3305.

RIMS - (4) 8.00x16.5, 8-hole w/4 8.00x16.5 10-ply tires, good for spares. 924-3553 after 5:30.

64 JEEP - Willys CJ5, low mi, hydraulic snow plow, good tires & 4 snows w/removable cap. \$1000. Lou, Ext. 4605.

69 CADILLAC - Sedan de Ville. Make offer. Ext. 3267.

71 TRUCK-CAMPER - 10 1/2 self contained, excel cond, sleeps 6. 732-2998, 732-3517.

70 CHEVELLE - SS, 427, 4-spd, 373 gears, TA radials, am/fm tape, imac in & out. \$2700. Mike, 744-2725.

71 GREMLIN - All new tires, excel cond, good cheap transportation. \$995. Ext. 3593.

72 OLDSMOBILE - Cutlass Supreme, automatic, buckets, am/fm, 35,000 orig mi, good cond. \$2300. 325-9594.

TAPE DECK - Audiovox 8-track, like new. \$30 or best offer. George, Ext. 4308, 698-6051.

CARBURETOR - Halley Performance, 650 double pumper, brand new in box. \$100. Mike, 878-2486.

TIRES - Goodyear J-78-15, good cond. Ext. 3392.

73 OPEN ROAD CAMPER - Chevy Van C30 V8, ps/pb, furnace, shower, toilet, oven refig, sink, sleeps 5, ready to go. 929-4439.

69 FORD - 390, ac, am/fm, snows, 82,000 mi, body fair. \$500 or best offer. Ext. 2091.

PARTS - For '59 220S, windshield, \$15; tranny, \$50; generator and starter, \$10 ea. 722-4976 eves.

### Boats & Marine Supplies

19' CHRIS CRAFT - Mahogany speedboat, 318 V8. \$850. Ted, Ext. 4163/4126.

12' ALUMINUM BOAT - \$75. O. Booker, Ext. 4719, 727-5912.

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

12' ALUMINUM BOAT - '74 Sears 4.5 hp motor. \$225. 74-3764.

19' O'DAY - Mariner #78, '63, fiberglass, fine cond, practically new 6 hp Johnson, '74 Bottger main & jib, dac cockpit cover, extras. \$3000. Muckerman, Ext. 4368, 286-1489.

BILGE PUMP - Lovitt, 550 gph, new, automatic. \$25. Ext. 4666, 475-8504.

29' PACEMAKER - 150 hp Palmer fwc, galley, dinette, head, w/chlorinator, Monel gas & water tanks, economical. \$2500. Ext. 4121.

PROPELLER - 10 1/2"x12 for Evinrude or Johnson, 6 gal portable gas tank, boarding ladder. \$25. 727-5467.

12' ALUMINUM BOAT - '67 Applegate boat w/'57 18 hp Johnson, completely reconditioned. Ed, Ext. 4249.

26' CHRIS CRAFT - 150 hp Crown, in water, ready to go. \$2500. Lou, 878-0743.

SUNFISH - 6 yrs old, new sails & rigging. \$250. Ext. 3121, 744-5261.

26' CABIN CRUISER - Sleeps 4, equipped, excel cond, must be seen, in water, ready to go, incl season dockage. George, 581-4318 after 6.

32' BALTZER - Twin 125 Chrysler, 60 hrs new transom, camper back, ideal family/fishing boat. 331-1718.

### Miscellaneous

YARD SALE - 40 families, next Fink's Farm, 25A, Wading River. Aug 21, 8:30-5:30, rain date Aug 22.

FAN - Large, 3 spd, excel cond. Ext. 4885.

TRAILER - '66 Scotty, 15', sleeps 4, fully contained, toilet, etc., good cond. \$750. 924-4993.

BIKE - Girl's Schwinn, 3-spd, 26", \$30 or best offer; Christmas tree, \$5; mixer, \$8 or best offer, must sell. Jorma, Ext. 3524.

TENNIS RACQUET - Chemold aluminum championship, M 4%, used only a few times. \$17. Masaru, Ext. 4329.

BICYCLE - Men's 27", 10-spd, new tires, good cond. \$60. Sue Norton, Ext. 2913, 475-3415.

VENDING MACHINES - (10) Brand new for hosiery. 924-3066, M-F.

CAMPER - Fully equipped, sleeps 3, \$595; hub caps, 14", new for truck, \$10; organ, \$30; 8' commercial light bulbs, 24 in box, \$35. 475-8724.

SPANISH DINING RM - Table, 6 chairs, large breakfast. \$850. 399-2945.

KITCHEN SET - Spanish, oak formica octagon table, 4 swivel bucket chairs. \$150. 399-2945.

CHORD ORGAN - Walnut cabinet, excel cond, needs tuning. Orig \$400, asking \$80. 584-6019 after 4.

TV - Color, '64-65, plays reasonably well but needs some work. \$45. Ken, Ext. 4003, 4581.

TV - Color, 21" RCA console, oldsville, tries to play but stutters. Free. Ken, Ext. 4003, 4581.

FISH TANK - 30 gal, \$10; cooler chest, 72 quart, \$15; hedge trimmer, elec, \$10. Jerry, 475-5591 before 3, Ext. 3303 after 4.

PANASONIC STEREO - Speakers receiver & turntable, excel cond. 286-0613.

BEDS - Table, chairs, hairdryer, pressing iron, clothes, etc. Cheap. 744-8917.

TRAVERSE ROD - (1) White, 83"-150", good cond, \$5; (1) traverse rod, \$3; (2) blonde end tables, (1) coffee table, \$8 for all three. Ken, Ext. 4581, 4003.

RUG - Green, 12x7. \$10. Roger, Ext. 3817, Ext. 3031 eves.

MINNIE CYCLE - GE 18 pounder, many features. \$125. 281-3205.

TRAILER - '76 Stevry deluxe 600, sleeps 6, sink, 10 gal water tank, stove, dinette, spare, jacks brakes, portapotti, 75 lb ice box, excel cond. Asking \$1150. 929-4911 after 4.

ANTIQUÉ BEDS - Twin size, carved posts. \$200/pr. M. Greene, Ext. 4484, 286-0237 after 5:30.

GOLF CART - W/holder & seat, folding. \$10. Ext. 4240.

CB RADIO - Pace 144, 23 channel mobile, all the greatest features, 2 mo old. \$150. Terri, 878-2399.

BICYCLES - Boy's 26", \$25; girl's 24", \$20; girl's bana seat, \$30. Ext. 4885.

ANNALS OF AMERICA - 19 vol new set. Best offer. Ext. 4885 days & weekends.

KITTENS - Adorable black, several weeks old. Free. Ext. 4885.

FURNITURE - Spanish dining rm, 6 chairs, \$150; girl's French Provincial bedrm, \$125; ping-pong table, \$30; marble lamp table \$60. 472-2159.

BICYCLE - Men's racer, Iverson 10 spd, brand-new, never used. \$50. Bill Swatton, Ext. 4452, 473-9433 after 7.

ADDRESSOGRAPH - Model 904, electric, for plates. 150. Ext. 4240, 286-0295.

TV - B/w GE, 20". \$35. Ext. 3107.

PICNIC TABLE - 7' long w/4"x4" legs & 2 benches. Ext. 4218.

STEREO - Console set, am/fm, short wave, record player, like new. \$100. Ext. 4218.

WHEEL BARREL - \$10; 6 folding chairs, steel, \$3 ea; 7' artificial Xmas tree, \$15, Scotts rotary spreader, \$20; moving, must sell. Ext. 4218.

BEDRM SET - All wood, double bed, box spring & mattress, headboard, 2 night tables, triple dresser w/mirror, man's chest of drawers. \$500. Ext. 4218.

KITCHEN TABLE - Wood grain formica top, 36"x48" w/12" leaf & 6 chairs. \$40. Ext. 4218.

COCKTAIL TABLE - W/2 matching end tables, Mediterranean, used less than 6 mos. \$145 for all 3. 286-8517 after 5:30.

MAHOGANY DRESSER - W/mirror; also cocktail table; both excel cond. 751-0023.

STENOGRAPH MACHINE - W/stand, under warranty until Jan '77, easily converts to court reporter capacity. \$175. 585-7951.

ROLLER SKATES - Men's size 12, excel cond. 727-3608.

CAMPING EQUIPMENT - 9x8 tent, \$35; 2-burner Coleman stove, \$10; 2-gal water jug, \$3. Sheila, Ext. 3031.

STEP TABLE - \$3; toaster oven, \$15; vanity & bench, \$8; electric fry pan, \$7; dresser, \$12; long iron skillet, \$4. 475-8724.

IRISH SETTER - Male, approx 3 yrs old, shots, good disposition, obedient, for adoption. Joan, 399-2084, Ext. 4393.

RHODESIAN RIDGEBACK - 10 mo female, excel watchdog, good w/children, can be in/outside dog. \$25. Joan, Ext. 4393, 399-2084.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue

### 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 Rent

MILLER PLACE - Furnished 2 br house, 2 baths, fireplace, all appliances, wooded acre, screened porch, garage, no pets, couple preferred. Oct/Nov '76 - July '77. \$350/mo + util. Ext. 3821.

WADING RIVER - New 3 br hi ranch, 3 blocks from water, priv beach, 15 min from Lab, yearly rental, avail Sept 1. \$350/mo. Ext. 3121, 744-5261.

WADING RIVER - House, Sept - June. 929-6324.

VERMONT - Chalet, sleeps 12, all conveniences, lake swimming, fishing, hiking, located on 500 acres woodland, nearby theatre, Marlboro music, horseback riding, golf, tennis, rented weekly, monthly seasonal. 757-5599.

SHIRLEY - 2 br, 1/2 block from beach, boating, secluded, immed occupancy. \$275/mo. Ext. 3185.

PATCHOGUE VILLAGE - Furnished rm, priv home, off-street parking, village conveniences, suitable congenial mature woman. 475-2627 after 6.

MILLER PLACE - House to share, furnished across from water, beach rights, piano, quiet location. Bob Taylor, Ext. 4098.

### For Sale

BLUE POINT - 4 br ranch, lr, large family room, screened porch, garage, separate garage size tool shed, corner lot. Asking \$51,000. 363-6366.

PATCHOGUE - House on lake, 3 br, 1 bath, sunken lr, fireplace, formal dr, basement w/bar, patio, dishwasher, w/w carpeting, 3 refrigerators, many extras. 475-1504.

BELLPORT VILLAGE - 4 br, eat-in kit, den, w/w carpeting, lr, dr, 2 fully-tiled baths, 100'x140' plot, extras. Asking \$45,000. 286-3970.

WADING RIVER - Near Sound, fully deeded beach rights, 6-rm ranch, 2 br, bath, oil/hot water heat, fireplace, full basement, rear patio, taxes \$988/yr. Asking \$44,000. 929-6465.

MASSAPEQUA - 100x100 corner waterfront plot, bulkheaded, dead-end st, all util in street, garage, driveway, cesspool, trees, shrubs. 727-7769.

SOUTH SETAUKET - Attractive 3 br ranch, den/fireplace, large lr, eat-in kit, basement, garage, brick patio, treed 1/2 acre, 3-Village schools. \$35,000. 751-6921.

PATCHOGUE VILLAGE - 3 br ranch, expansion attic, finished basement, most appliances, country kit, attached garage, exterior maintenance free. \$34,000. 475-7694, Ext. 2290.

PT JEFF STATION - Large 8-rm Colonial, 4 br, eat-in kit, 2 1/2 baths, w/w carpeting, screens & storms, dead-end st, 1/2 acre, many extras. Mid 40's. 928-5940.

PT JEFF VILLAGE - 3 br ranch, 1 1/2 bath, lr w/fireplace, large eat-in kit, wooded 1/2 acre. \$48,000. 473-7750.

3 BR RANCH - 1 acre lot, dr, lr, eat-in kit, full basement, attached garage, shed, w/w carpeting, 4 appliances. \$36,000 or rent w/options. 281-1458.

POCONOS - 1 acre, water, elec, horseback riding, skiing, tennis, priv community, gate guard. Ext. 3870, 723-3003.

### Wanted

BABYSITTER - For 4 mo old baby, approx 1 day/wk, experienced, in my home. Bette, 281-7763.

AUTO RADIO - AM/FM stereo, for GM car, in dash, good cond. Ron, Ext. 2491, 473-5939.

FLUTE - Good cond, for student. D. Slatkin, Ext. 3185.

SPEAKERS - Large outdoor horn type, 25 watts or more, 8 ohms. Sheldon, 744-7861.

TRADE - '66 Mercury, 9 pass, fully equipped station wagon in good cond for a small outboard motor boat in usable cond. Paul, Ext. 2476.

HOUSE OR APARTMENT - 2 bedrm, near Lab, reasonable, young couple w/child, needed end of Aug. Pauline, Ext. 2238.

HOSTESS PASTRY PANELS - Of 3 baseball players neatly cut at seams on edge of box. Will pay 25¢ ea. K. Thompson, Bldg. 463, Ext. 3385.

PLASTIC LINERS - From Coke cap. Need 200. Will send 2¢ ea. K. Thompson, Bldg. 463, Ext. 3385.

HOME - For 3 black female rabbits w/hutch, run & food. Free. 588-6879.

MINI BIKE - For parts. Ext. 4539.

REFRIGERATOR - W/freezer compartment, minimum capacity 11 cu ft. Ext. 3394.

TAIL LIGHT LENS - For '65 Apache Eagle trailer. Frank, Ext. 4581.

### Lost and Found

LOST - Blue jacket of warm-up suit at tennis court, Wed, Aug 11. Ext. 3193.

### Carpools

MILLER PLACE - Driver needed for amiable carpool. Ext. 3609.

EAST END - 4th driver/rider need for carpool leaving Sag Harbor at 0730 daily. Ext. 4460.

### Services

AUTO REPAIRS - Tune-ups, brakes & almost anything. Ray, 878-2486.

CAR WAXING - Reasonable rates. Steve, 924-8011.

CLOCKS - All types overhauled & guaranteed, antiques my specialty. Free estimates. Jud Davis, Ext. 4504, 473-1523.

TREE REMOVAL - Hauling, estimates. 281-6116, 281-1364.

HEMS - Alterations, general sewing, reasonable. Sharon Hoeffner, 878-2591.

GENERAL LAWN CARE - Shrub trimming & tree work by ambitious high school student, Mastic & nearby towns. Glenn or Tim, 281-7873.

BLACKTOP - Paving & sealing. 475-4382.

TUNE-UPS - Brake jobs done on your driveway. Ray, 231-7158 after 5.

HAVE TANKS WILL - Clean pools & boats, change props, etc. Your local scuba diver, Mike, Ext. 4114.

TREE SERVICE - Removal, etc. 727-1329.

LIGHT HAULING - Yards, cellars cleaned, lawn leaves vacuumed. 727-1329.