



## Checks To Carry Base Pay Amount

In response to requests from employees, base pay rates will be printed on all paycheck stubs. The base pay rate is the rate at which an employee is compensated for a regular week or month of work and does not reflect overtime or other premium pay, or any deduction for Leave Without Pay.

This convenience will be furnished starting with the paychecks issued to weekly employees on October 16 and to monthly employees on October 31. A new printed form for the check stubs providing a space for this information will be adopted when it becomes available.

## Veljko Radeka Is 87th BNL Lecturer

"Noise in Physical Measurements," the BNL Lecture originally scheduled for October 15, will be presented the evening of October 22, at 8 p.m., in Berkner Hall.

Dr. Veljko Radeka, Instrumentation and Health Physics, will explain in his lecture that noise in most instances hides its physical origin. Noises with identical properties can be caused by different physical mechanisms, and understanding these mechanisms is essential in reducing noise. Understanding the properties of noise is needed to design the best measurement methods.

He will also explain how this understanding has been used in the development of low noise amplification and signal processing methods for nuclear spectroscopy and other areas.

A buffet supper will be served at the Brookhaven Center before the lecture from 6 to 8 p.m. Reservations should be made in advance by calling Ext. 2453 before 5 p.m. on October 22. Refreshments will be available in the lobby of Berkner Hall after the lecture.

## Candidates Meet Tonight

The League of Women Voters of Brookhaven South will hold its annual Candidates Meeting at 8 p.m., Thursday, October 16, in the auditorium of the Bellport Senior High School on Beaverdam Road in Brookhaven.

Candidates for the new Suffolk County Legislative Districts 2, 3 and 4, and for the Town Officers of Supervisor, Councilman, Clerk, Receiver of Taxes and Superintendent of Highways have been invited to participate. There will be time for the audience to ask questions of all candidates present.

Following the meeting there will be an informal reception offering an opportunity for the public to meet and speak to the candidates.

## Cooking Exchange

The next meeting of the Cooking Exchange will be held on Thursday, October 23, from 3 to 5 p.m., in the Apartment Area Recreation Building. Yugoslavian cooking will be featured in the demonstration.

A fee of 50¢ will be requested from each adult to defray the cost of the demonstration and the babysitters.

## Attention All Wives!

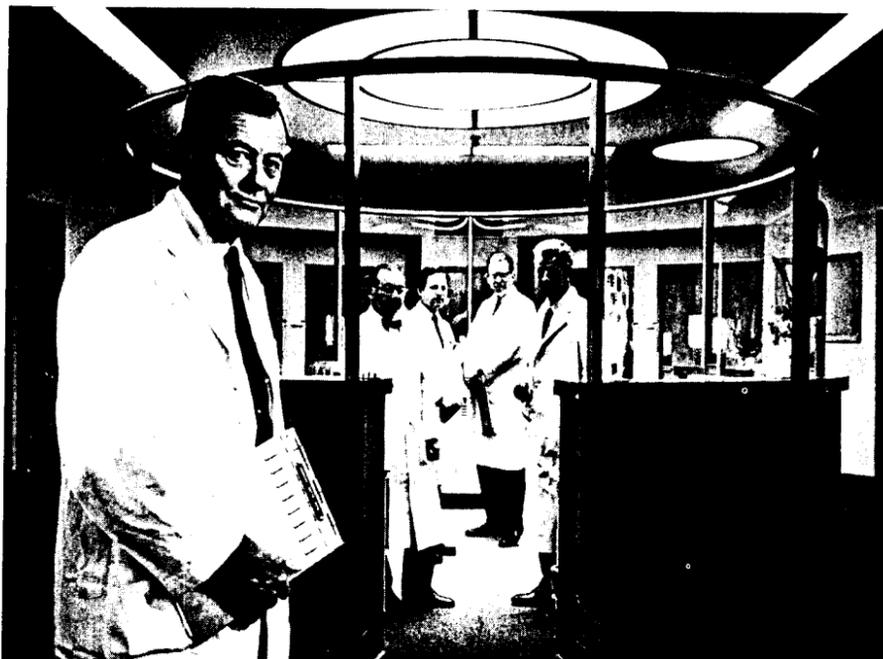
Your husband has in his possession a letter inviting you to a tea and sherry party in the Brookhaven Center on Wednesday, November 5, from 3 to 6 p.m.

Be sure to remind him to bring it home; but even if you never see the letter, an open invitation is being extended to you to attend.

## Coming Attractions

- 10/18 High School Visitors Day
- 10/20 French Group of BNL  
Prof. Konrad Bieber  
(Conference Center - 8:30 p.m.)
- 10/22 BNL Lecture  
V. Radeka  
(Berkner Hall - 8:00 p.m.)
- 10/25 Visitors Day - General Public
- 11/10 French Group Movies  
"Carnival in Flanders"  
(English sub-titles)

## Pacific Island Medical Team Reports



Members of the medical team who examined and treated some of the Marshall Islanders who were accidentally exposed to fallout in 1954, are pictured at BNL during an examination of patients after thyroid surgery. Dr. Robert A. Conard (left) heads the team. Other members are (left to right): Dr. Jacob Robbins, National Institutes of Health; Dr. Harold Atkins, BNL; Dr. Brown Dobyns, Cleveland General Hospital; and Dr. Bentley Colcock, Leahy Clinic. —Humphrey

## Chernick Now Heads Reactor Physics Div.

The Nuclear Materials Division of the Department of Applied Science, which was formed in March 1968 under the direction of Herbert Kouts, is now requiring his full time, and he has asked to be relieved of his responsibilities as Associate Head (Experimental) of the Reactor Physics Division.

Effective October 1, 1969, Jack Chernick, who has been Associate Head (Theoretical) became the Head of the Reactor Physics Division, responsible for both the Theoretical and Experimental programs.

The Reactor Physics Division at Brookhaven was originally established to delineate the neutron physics design of the Brookhaven Graphite Research Reactor. Later, it was responsible for similar work for the Medical Research Reactor and the High Flux Beam Reactor. In addition, it has carried out a continuing program in basic reactor physics, particularly in thermal, light water moderated, slightly enriched uranium reactors which are the important producers of nuclear power in the United States today.

During the last years the emphasis has shifted to fast reactors in support of the Liquid Metal Fast Breeder Reactor program.

## Eyes On The Future



These two youngsters take a careful look at the Lunar Sample displayed at the Brookhaven Center last Saturday. They were part of the crowd of 4,248 who came to get a close view of a piece of the moon. Children and adults alike were fascinated by the sample displayed by BNL. —Rosen

## BNL Team Reports 1969 Examination Of Marshallese

Dr. Robert A. Conard, head of the medical team from Brookhaven National Laboratory responsible for monitoring the Marshall Islanders who were accidentally exposed to fallout from a 1954 Bikini bomb test, reported five patients with thyroid abnormalities were brought back to the United States for thyroid surgery as a result of the 1969 yearly medical survey. Three of the cases were found to be malignant, but one is believed to be unrelated to radiation exposure.

The five patients arrived at Brookhaven National Laboratory on August 26 and returned to the Marshall Islands on September 21. The surgery was performed on September 8, 9, and 10 by Dr. Brown Dobyns at the Cleveland Metropolitan General Hospital.

An unexpected wind shift during the 1954 test carried the fallout from Bikini at



Mike Stravino of Medical places a Marshallese patient in the Whole Body Counter.

the western end of the Marshall Islands located east of Bikini. Nearest and most heavily exposed were 64 Marshallese at Rongelap. There were also 18 Marshallese at Ailingnae and 157 at Utririk receiving a much lesser exposure. These people are examined on a regular schedule. To provide a comparison with the exposed populace, a control group of about 200 unexposed Marshallese is also examined, but on a less frequent schedule.

There were 19 children in the Rongelap population under the age of 10 at the time of exposure. The estimated dose to their thyroids was from 500 to 1400 rads. Seventeen of these children have developed thyroid abnormalities and some show growth retardation. Fifteen of the children have been operated on for thyroid nodules, including the case found to be malignant this month. This is the first time a malignant thyroid condition has developed in the Rongelap group who were exposed as children. According to Dr. Conard, the children show a higher incidence of thyroid abnormalities because their thyroid glands were smaller and probably received a larger comparative radiation dose.

There were six children under 10 years on Ailingnae. They received from 275-600 rads. The 40 children on Utririk in the same age group received thyroid doses from 55 to 125 rads. There has been no development of abnormalities in either group. The selection of 10-year olds as a group designation did not occur until a few years ago and was done primarily as a result of statistical observations.

The Rongelap inhabitants who were over 10 years at the time of exposure received a thyroid dose estimated at 335 rads. Eight percent developed thyroid abnormalities. The exposed adult populations on Utririk and Ailingnae, like the control population, has had a low incidence of thyroid abnormalities.

In total, four malignant thyroid conditions have been found, three of them from

(continued on page 3)

**Semester Students And College Heads Meet**



Deans and Department Heads of the colleges participating in the Brookhaven Semester Program were taken on a tour of the BNL research facilities for a general orientation on Brookhaven's work.

—Humphrey

**Brookhaven Semester Conference Ends**

Representatives from the ten developing colleges who came to Brookhaven to confer about the Brookhaven Semester Program left on Saturday after a busy two day program.

The college deans and department heads who came here were impressed by the program offered by BNL, and particularly by the quality of the research facilities.

During meeting sessions the instructional aspects of the program were evaluated as compared to the research program. Most of the participants who felt that the program was good before they came here were even more impressed after hearing each of the students tell of their work at BNL.

"This conference," said Ike Cole, "was long overdue. The faculty was sending students to the program without knowing themselves exactly was involved. This became an important orientation for the faculty, and served to strengthen their enthusiasm for the Brookhaven Semester Program."



Deborah Livingston, Grambling College, speaks to the entire meeting about her research project at BNL.



In spite of the large numbers of cars bringing people to see the moon samples, at no time did a traffic jam develop.



A family group examines the moon rock close up. Each of the onlookers shows a different reaction to the lunar sample.



A steady stream of visitors filed past the moon rocks on display Friday and Saturday at the Brookhaven Center.

— Rosen

**Here and There**

Dolores del Castillo

M.M. Small (PEP) attended the 17th Annual Joint Engineering Management Conference held in Montreal, Canada, October 8 through 10.

Dr. Timothy Toohig (Accelerator) was invited to give a talk at a high energy seminar and colloquium for the Physics Department at Vanderbilt University, Nashville, October 9 and 10 respectively. His talk was entitled "Research Program at the AGS"

C.L. Wang (Accelerator) has recently returned from Taiwan, Republic of China. Dr. Wang taught a course for the 1969 Summer Science Institute co-sponsored by Academia Sinica, National Taiwan University, and National Tsinghua University in Taiwan.

Thomas Prach (DAS) attended the Conference on Analytical Chemistry in Nuclear Technology held recently in Gatlinburg, Tennessee.

Jacob Gilat (DAS) presented a seminar on evaporation calculations at the University of Rochester on October 15.

A.G. Bogers of the Central Organization for Applied Scientific Research in the Netherlands T.N.O., is visiting at the Laboratory today for discussions on liquid metal corrosion work.

Hans U. Borgstedt of Kernforschungszentrum Karlsruhe is also visiting the Laboratory today for discussions on liquid metal corrosion work.

Louis Champeix of CEA at Cadarache will visit the Laboratory on October 20 to discuss liquid metal corrosion work.

**Cafeteria Menu**

**Week Ending October 23, 1969**

<b>Friday, October 17</b>	
Old Fashioned Clam Chowder	
Fish 'N' Chips/Sauce Tartar	.65
Round Roast of Beef/Pan Gravy	.75
Tuna Fish Pie/Pastry Cover	.80
<b>Monday, October 20</b>	
Chicken Chowder	
Chicken Cacciatore	.65
Breaded Pork Chop/Applesauce	.70
Browned Corned Beef Hash/Chili Sauce	.65
<b>Tuesday, October 21</b>	
Beef Barley Broth	
Barbecued Short Ribs of Beef	.65
Beef Chop Suey on Rice	.65
Broiled Chicken Livers/Bacon Strips	.75
<b>Wednesday, October 22</b>	
Cream of Mushroom Soup	
Knockwurst & Sauerkraut	.77
Veal Patty Parmigiana	.75
Fried Scallops/Sauce Tartar	.75
<b>Thursday, October 23</b>	
Mulligatawny Soup	
Sauerbraten/Red Cabbage	.75
Old Fashioned Chicken Pie/Pastry Cover	.80
Spaghetti/Italian Sausage	.65

**BROOKHAVEN BULLETIN**

Published Weekly for the Employees of Brookhaven National Laboratory

CARL R. THIEN, Editor  
DOLORES DEL CASTILLO, Editorial Assistant  
CLAIRE LAMBERTI, Copy Preparation  
40 Brookhaven Ave. Upton, N.Y. 11973  
Telephone 516 924-6262 Ext. 7238

NORBERT J. DERNBACH  
Public Relations Officer

**Letters To The Editor**

Dear Sir:

I protest the Laboratory's allowing organizations, such as the Brookhaven Vietnam Moratorium Committee, to meet here. This is a government owned and maintained installation. Therefore, no programs opposed to government policies should be tolerated on site. Personal views can be expressed elsewhere. This is not the place for such activities.

I am sure the North Vietnamese are proud of this action. I am ashamed that such demonstrations against our country's policies should be condoned and encouraged here.

Kathy Murphy

Dear Sir:

Some people seem to have the opinion that expressing a view contrary to present government policy, on government property, is somehow a subversive act. What is the government? Who does government property belong to? I have always been given to understand that in this country, at least, the people had something to do with it. If this is not so and peaceful dissent is not to be tolerated, where else is there to go but the streets. Rallies of government employees will be held at a number of government auditoriums in Washington, D.C.

The Vietnam Moratorium was not conceived by enemy agents or the lunatic fringe, but by responsible people who wish to give expression to a contrary view of present U.S. policy on an issue that is deeply affecting us all.

Harry Palevsky

Dear Sir:

I'm much interested in the letters from Mary Hall and Patricia Donnelly regarding the needs of the American Indian children. Our home is a few miles from the Papago Reservation and we became much interested in that tribe. Also, I have worked some as a volunteer worker at a Community Center here in Tucson. It serves Indian, Mexican and Negro children in the preschool age group.

The headquarters for the Bureau of Indian Affairs for the Papagos is at Sells, Arizona. They could give information on the needs of individual children. There are often Indian children who finish High School and are definitely college material but are unable to attend college. Even with a scholarship, which some receive, there are many other needs. That might be a project for your education-minded people of the Lab.

I have much more information of interest about these people. Kitt Peak Observatory is on reservation land. Also San Xavier Mission, near Tucson, is an active Catholic Mission serving the reservation people. The Presbyterians have a mission at Sells. I know their pastor, an extremely realistic person, who understands the weaknesses of the Indians but is especially interested in the great possibilities for the Indian Individual.

Ruth L. Porter  
1735 Calle Pacifica  
Tucson, Arizona 85705

Dear Sir:

I remember my school trip on Visitors' Day to Brookhaven as one of the most interesting and rewarding items of my school career, and I honestly believe it helped me make one of the most important decisions of my life - to teach science so others could find the wealth of knowledge in so ancient, and yet so new, a field.

Mrs. Theresa Thorsen  
New Jersey

Dear Sir:

The committee which brought Professor Kenneth E. Moyer to Berkner Hall as the AUI Distinguished Lecturer is deserving of public compliment and thanks from all who were privileged to see and hear him.

From the air of excitement and the animated discussions at the reception following the lecture, it would seem that everybody got his message.

I would hope that a discussion group might take form at BNL to foster continued interest and deepened understanding of the very real and startling implications which he brought to our attention.

If this does occur, I would hope to be invited to attend such meetings.

Last Thursday evening was one of the most enjoyable evenings for me in many years. My fervid thanks to the committee, and to Professor Moyer.

John F. Gorr



Lines formed from time to time at the door to the Center, but at no time was the wait longer than five minutes.



The moon map showed past and future landing sites for the Apollo program. A total of 8,500 people viewed the lunar sample during the four days it was exhibited.



## BNL Team Reports On Examination Of Marshallese



The five Marshall Islanders who came to BNL for examination and treatment listen to their interpreter and guide (center, standing) Dr. Ezra Riklon explain hospital procedures.

(Cont'd from page 1)

the Rongelap population. Of those, two were adults and one was a child at the time of exposure. The fourth case, the adult patient from Utirik treated this year, is not believed to be related to radiation exposure.

Dr. Conard explained that the reason the thyroid gland received a much larger dose than the whole body is because of a process called selective absorption by the thyroid of radioactive iodine from food and water ingested by the Marshallese following the fallout.

The five Marshall Islanders arrived at Brookhaven National Laboratory on August 26, where they were carefully and thoroughly examined, including whole body counts which were normal. In addition to Dr. Brown Dobyns, who performed the surgery, other consultants included Dr. Shields Warren and Dr. William A. Meissner, both with the Cancer Research Hospital, New England Deaconess Hospital, Boston; Dr. J. Edward Rall and Dr. Jacob Robbins, both with the National Institutes of Health; Dr. Bentley Colcock, Leahy Clinic, Boston; and Dr. John D. Reid, Cleveland Metropolitan General Hospital.

Accompanying the five patients to this country was Dr. Ezra Riklon, practitioner from the Marshall Islands which are under the jurisdiction of the Trust Territory of the Pacific Islands. Dr. Riklon participated in the examinations and consultations and was present in the operating room for all operations. Upon return to the Marshall Islands he will supervise the thyroid hormone treatment of all people who were exposed. It is hoped that the thyroid hormone treatment will not only prevent the development of further malignancies, but also help overcome the growth retardation in the children who have shown it. Dr. Conard noted that some enhancement of growth has taken place since the treatment was started in 1965.

Generally, the exposed population is in good health and good spirits. Over the years a number of deaths have occurred, but none were attributed to the fallout or its effects.

Dr. Conard noted that the 1969 examination was the 15th post-exposure year in which the Atomic Energy Commission's Division of Biology and Medicine has examined and cared for the exposed Marshallese people. The surveys are carried out jointly with the Medical Department of the Trust Territory of the Pacific Islands. The results of these examinations are reported regularly to the scientific and medical communities.

## October 18 Is High School Day

It's that time of the year again - the 20th Visitors' Day Saturdays in the history of BNL. This Saturday, October 18, is High School Visitors Day.

Last year students from 191 schools from 5 states braved torrential rains to come to Brookhaven to see it as it really is. Hopefully this year, the weather will be on our side so that most of the young scientists of the future who have asked for tickets - approximately 12,000 tickets have been mailed out - will be able to find out what Brookhaven National Laboratory is all about.

The Answer Men are braced for all questions, the Cafeteria is stocked up on frankfurters and hamburgers, exhibits are set up, and the busses are waiting.

## Classes Offered For Mothers-To-Be

A new series of classes for expectant mothers will be conducted by the Suffolk County Department of Health starting Monday, October 27, from 2 to 4 p.m., at the Health Department, County Center, Riverhead.

The six-week course will be conducted by Mrs. Susan Homan, a Public Health Nurse, and will give the expectant mother information about pregnancy and what may be anticipated during confinement. It will include discussion on human reproduction, preparation for labor and delivery, nutrition, care of the infant, breast feeding, formula preparation, and demonstrations of bathing the baby. A tour of the maternity division of a hospital will be made during the course.

Breathing and relaxation techniques will be taught to those who wish to participate, are beyond the first trimester, and have the physician's written consent.

All pregnant women are welcome, particularly those expecting their first baby. Further information may be obtained from the Riverhead office of the Health Department, telephone 727-4700, extension 373.

## Seek Nuclear Art

Many scientists, engineers, and technicians working in the nuclear field, have artistic talents, and one of these talents is painting. Amateur artists employed by the nuclear industry are invited to submit their work in the yearly art exhibit, NucleART.

Cash prizes will be awarded to winning entries. The first place prize will be \$100, second place \$50, and third place \$25.

NucleART '69 will be held in conjunction with AtomFair West '69, December 1-3, at Brooks Hall, San Francisco. AtomFair is the annual show of the nuclear industry and is sponsored by the Atomic Industrial Forum, Inc. and the American Nuclear Society.

All entries must be paintings or other assemblages that can be displayed for wall hanging. The deadline for entries is November 1.

Further information can be obtained by writing to: Dennis Eastep, Director, NucleART '69, Atomic Industrial Forum, Inc., 850 Third Avenue, New York, N.Y. 10022.

## The World Is Under Discussion

Environmental elements, ecology of individuals, populations and ecosystems, biosphere, applications of ecology in agriculture, public health, and urban planning - these are the subjects to be discussed in a lecture series on world environment to be given at the Patchogue Senior High School at Saxton Street.

Dr. A. Dexter Hinckley, of BNL's Biology Department, will serve as Instructor for the series. An ecologist-entomologist, he has done basic and applied ecological research for 10 years in the Pacific Islands and two years at Brookhaven Lab.

The series began last night with a lecture on Elementary Ecology, and will continue for the next nine weeks, on Wednesday evenings, from 7:30 to 9:30 p.m., in Room 205. A fee of \$7 will be charged.

## Bowling News

Irma Carl

### Purple League

Designers and Repulsives are still playing games with first place and this week the Designers are up there. Both of them had better look out for last year's BNL Champs, the Electrons, who are not very far back and just love to go to tournaments!

For a welcome change we had some good individual bowling. Stan MacCormack a 202-583 scratch series; Mike Guacci 201-563; Arnie Kriesberg 205-553; Arnie Schroeder 210-541; Jack Lauber 203-524; Mike Iarocci 517; Tom Lee 507; Werner Hayes 500; and Joe Cuccia 200-499. Arnie Kriesberg is also the winner of our first 678 award with a 697 gross series.

### Red League

Great scratch series were rolled by R. Meier (224/207/604) and R. Wilson (226/203/592). J. Baer rolled a 223; R. Vignato 219; E. Meier 216, R. Penna 214; R. Larsen and S. Kiss 212; J. Cain 211; G. Tanza and D. Schonberg 201; and R. DeGregorio 200.

### Pink League

Only 9 points separate the last from the first in team standings. Thus far the Bookies take the lead, followed by the Pinsplitters, Hopefuls, Alley Oops, Fiscal Assets, Medigals, All Toes, and the Bioboozers.

## Adult Swim Classes

Registration is now being accepted at the Recreation Office for Adult Swimming Lessons which will be conducted at the BNL Swimming Pool. Non-swimmers, beginners, and those who would like to improve their abilities will be accepted.

Since we have received many inquiries, the registrations will be accepted on a first-come, first-served basis. The classes which will be one hour long (5:30 - 6:30) have been scheduled on October 20, 22, 23, 29, 30 and November 3. The cost for the six-lesson program will be \$10.

Registration deadline October 24th, or before if class maximum is reached. (class minimum - 12)

## Soccer

M.T. Hutchings

No matches to report this week. We played Southampton again last Saturday and shall have an account of the game next week.

We are still playing Mondays at 5:10 p.m. while the light lasts. Teams are being drawn up for a five-a-side league in the Gym (probably Mondays) during the winter months. Want to join in? Call Ext. 7608.

We have one further match definitely scheduled at the moment. This will be against Grumman Res. on Sunday, 9th November at 1:00 p.m. (away). However, arrangements are being made to play Stony Brook, Yale Graduates, Oyster Bay Cricket Club (we should win that one!), the United Nations, and other L.I. League teams, before the snow falls.

## French Group of BNL

The next meeting of the French Group will take place on Monday, October 20, at 8:30 p.m. in the Cafeteria-Conference Center. Professor Konrad Bieber of the State University at Stony Brook will deliver a lecture entitled "Ecrivains de la Resistance," which will offer a survey of the occupation period from the perspective of 25 years later. Everyone is welcome; a contribution of \$1.50 will be collected from non-members.

Next date to keep open: November 10.

## Arrivals & Departures

### Arrivals

Bernice W. Armstrong ..... Medical  
Lawrence J. Hynes ..... Accelerator  
Vincent Rooney ..... App. Math.  
Stephen D. Schuntejda ..... Accelerator  
Thomas L. Smith ..... P.E.P.  
John H. Wolters ..... P.E.P.

### Departures

Anne C. Hudak ..... Medical  
Thomas M. Kenneally ..... Accelerator  
James J. O'Donnell ..... Accelerator  
Joseph L. Uher ..... Physics

## BERA Invites You On A Musical Excursion

Date: Friday, November 7

Departure Time: 9:00 p.m.

Starting Point: Gymnasium

Special Tour Attractions: Dancing till 1:00 a.m. to the music of the Wayne Foster Orchestra featuring Rick Stuart. Decorations expertly provided by the BNL Family Camping Club. Free chips, pretzels and ice. Beer and setups at a nominal cost. (Bring your own liquid refreshments, by all means)

Special prizes to tempt all travelers.

Cost: Employee/Escort \$2.00 ea.  
Visitor 2.50 ea.

Make your plans now to get on board for a journey of fun and excitement.

## Adam and Eve - It's Their Fault!

Any observer of today's headlines is bound to realize that the world is in a state of chaos. Who do we blame? Mr. Nixon? The Arabs? Chairman Mao? Probably. But when all is said and done, we can trace the whole magilla to that first conflict, that of Adam and Eve. What's happening now began then with Eve, the Serpent, and Adam, or as we think now, Linda Herr, Robert O. Maher, and Tony Nappi.

This is the subject of tonight's Theatre Group program. The play is an hilarious retelling of those first days in Eden. "The Diary of Adam and Eve" is a one act musical comedy that was originally contained in Broadway's "The Apple Tree." The delightful score was composed by Harnick and Bock who also wrote "Fiddler on the Roof" and "Fiorello."

Be sure to attend this exciting full scale production. It will be featured as an entertainment following the regular Theatre Group meeting which begins at 8 p.m. All are invited and admission is free. See you at Eden (Berkner Hall) tonight (Thursday). Bring your own fig leaves. No apples admitted.

## Family Camping Club

A meeting of the Family Camping Club will be held on October 16, 8:00 p.m., in the Recreation Building. All members are asked to attend for the annual nominations and election of officers.

Anyone interested in camping is cordially invited to come and join the Club.

## Football Notes

by Jack Brennan

With a minute left, a five yard pass from Skelly Frei to Walt Reams knocked the Slow Pokes from the unbeaten ranks and had the Rat Pack opening up the champagne bottles. The final score was Rat Pack 25, Slow Pokes 19. The Pokes threw first blood on a Prach to Hooper T.D. pass, Oldham E.P. making the score 7-0. The Pack scored twice before the half taking a 13-7 halftime lead on Frei passes to Herm Haller and Frank Campbell, Reams E.P. In the second half the Pack took a 19-7 lead on a Frei pass to Reams on a broken play. The Slow Pokes came back to tie the game 19-19 on two T.D. passes from Tom Prach to Murray Gottfried. With two minutes left, the Pack marched down the field, the big gainer a 25 yard pass play from Frei to Haller putting the ball on the 5-yard line, setting up the final T.D.

Applied Math who have the last shot at the Pack tonight, beat Chemistry 32-12 as Dick Murgatroyd scored 4 T.D.'s.

Physics beat the Staggering Six 26-12 as Jack Crow of Physics had his 4th straight 2 T.D. game. Stan Anderson of the Staggering Six had 2 T.D.'s.

Bio-Meds won for the first time in a overtime game against the Kickers 14-13.

### Standings

	Won	Lost
Rat Pack	6	0
AMD	5	1
Slow Pokes	5	1
Chemistry	3	3
Physics	2	4
Bio-Meds	1	5
Kickers	1	5
Staggering Six	1	5

## Classified Advertisements

### Positions Available

GROUNDS OFFICE CLERK ("MOTOR VEHICLE MAINTENANCE CLERK") (1) - Staff Services. Application Deadline: October 22, 1969.

WAREHOUSEMAN (3) - Supply & Materiel. Application Deadline: October 22, 1969.

Employees interested in applying for above positions should inform their Supervisor and file written request with Employment Office on or before deadline date.

### Autos & Auto Supplies

57 MG MAGNETTE SEDAN - Good transportation. \$100 firm. M. Sautter, YA4-3338.

66 VW SEDAN 1300 - New brakes & clutch, radio, good cond. Russ, Ext. 7343.

67 DATSUN CONV - Excel eng, new top & tires, new exhaust system, 27,800 mi, fully equipped, many extras. Dick, Ext. 7343.

60 CHEVROLET - 4 dr hdtip, V8, auto trans, good mech cond. \$95. Ext. 7541, 281-4419.

66 CORVAIR MONZA - Deluxe sport coupe, 4 spd, 110 hp, eng & body perf, posi rear, excel in snow. Ext. 2137.

51 BUICK SUPER - 4 dr. auto trans, r/h, excel motor, chassis, sounc body, recent inspection, cheap dependable 2nd car. Make offer. Van, Ext. 2924, 473-6570 eves.

68 OLDS 442 - Maroon, 4 spd Hurst, 17,000 mi, excel cond. \$2500. Bob, Ext. 2265, AT9-8236 after 6.

68 PONTIAC EXECUTIVE - 4 dr sedan, r/h, ps/pb, w/w. Ext. 2375, 584-5216 after 6.

69 CHEVROLET MALIEU - British racing green, 350 model, 4 spd, bench seat, 17 mpg. \$3000. Beitel, Ext. 2212.

68 CUSTOM LE SABRE - 2 dr hdtip, auto trans, ps/pb, r/h, w/w. belts, yellow/blk vinyl top & int, excel cond, 14,000 mi. \$2750. Ext. 2368, 286-1333.

66 PONTIAC - 2 dr hdtip, std trans rebuilt. Best offer over \$995. Leroy, Ext. 560, 288-2962.

67 Z-28 CAMARO RALLY SPORT - Am/fm radio, 4 spd, posi, cream puff. \$2200. Gene, 567-1037.

64 CHEVROLET IMPALA - 2 dr hdtip, 6 cyl, std trans, good cond. \$500. 281-5289.

60 PLYMOUTH - Auto trans, good transportation. \$125. Jose, Ext. 640.

2-6.50x15 GOODYEARS SAFETY - All weather, nylon tubeless. \$15. Ext. 635.

61 DODGE STATION WAGON - 9 psgr, good cond. Best offer over \$200. S. Garrett, Ext. 2123, 878-1002 after 5:30.

65 CHEVROLET MALIBU - 2 dr spt coupe, 6 cyl, auto trans, r/h, w/w, bckts, good cond, orig owner. GR5-4382.

2 SNOW TIRES - 7.60x15. \$2 ea. R. Ince, Ext. 7692.

64 VALIANT - 2 dr, 100,000 mi. \$150. R. Kelly, Ext. 462.

64 KARMIN GHIA - Radio, new w/w tires, new battery, excel. \$750. Ext. 486.

63 VW BUG - Top cond. 744-9193, 473-7818 after 7.

61 STUDEBAKER - Runs well, 2 new snows, good battery. \$115. 878-0792.

62 FORD CUSTOM 500 - 2 dr, no-spin rear end, std trans, excel cond. 941-4581.

64 VW CONV - New tires, battery, muffler; recent engine job, r/h, ski rack. \$650. GR5-2364.

67 FORD COUNTRY SQUIRE WAGON - V8, full pwr & other options, clean in & out, below wholesale. 728-0273 after 7.

68 HONDA CL-350 SCRAMBLER - Green metalflake, excel cond. \$525. Bruce, Ext. 481.

65 MUSTANG CONV - V8, 4 spd, red/white int, excel cond. \$1250, or will consider swap for car of equiv value/auto trans. Bruce, Ext. 481.

66 CHEVROLET BELAIR WAGON - R/h, ps. 475-0387.

61 CHEVROLET - 4 dr, std trans, good 2nd car. \$125. Bob, Ext. 2450, 289-0357.

2 HEAD RESTS - Brown, excel cond. Cost \$15, now \$7. S. Wagner, Ext. 618.

69 HONDA - 160 cc Scrambler, custom tank, high bars, chrome fenders, perf running, looks sharp. \$250. Furness, Ext. 7122, 732-2212.

67 SUZUKI - 250 cc Hustler 6X, perf running, fast, good cond. \$300. Furness, Ext. 7122, 732-2212.

59 FORD - 352-275 hp, 2 dr, hdtip conv, white, all it needs is auto trans work. Best offer. Ext. 7675, 286-1246 after 6.

67 SUNBEAM MINX - 4 cyl, 4 dr, auto trans, r/h, w/w, new cond. \$1250. Ext. 375.

65 BUICK WILDCAT - Hdtip, green w/sport wheels. \$1000. R. Gwathney, 589-8533.

61 CORVAIR STATION WAGON - \$150. R. Hedrick, JUB-7989.

GOODRICH TIRES - 7.35x15. Ronnie, Ext. 2198.

METERS - Stewart Warner tach, elec, 6v, 4 cyl, \$15; Stewart Warner oil pressure & ammeter, \$2 ea. Ext. 7612, HR3-7951.

60 CHRYSLER IMPERIAL - Good running cond. \$80. H. Postma, Ext. 541.

61 VALIANT - 6 cyl, 4 dr, auto trans, good running cond, 4 good tires plus 2 snows, some rust. \$100. 878-0289.

68 HONDA 350 SCRAMBLER - Excel cond. \$500 firm. Bruce, Ext. 481.

69 CHEVELLE SS-396 - 3 spd, 2 dr hdtip, r/h, green/white vinyl top, excel cond, must sell. Torre, Ext. 7356, 281-5050 after 6.

62 VW SUNROOF - Orig owner, compl dealer service record. \$300. C. Blackman, Ext. 2196.

65 AUSTIN HEALEY 300 MKIII - Late series, o.d. new exhaust system, battery & Dunlop tires, excel cond. 475-5894.

67 FORD FALCON FUTURA SPORT COUPE - 33,000 mi, excel cond. \$1325. R.L. Vogt, Ext. 2107.

64 VALIANT STATION WAGON - Std trans, excel cond. \$400. Ext. 7208.

14" WHEEL FOR GM CARS - M. Strongson, Ext. 2727.

63 DODGE DART - Blue, sedan, std trans, excel mileage, very good cond. \$425. Chandra, Ext. 2913, 397 after 5.

63 CADILLAC - 4 dr hdtip, white, all pwr, air cond, good cond, priced for quick sale. \$750. L. Schiro, Ext. 589, 286-8234 after 6.

65 PLYMOUTH STATION WAGON - 4 new tires, 2 snows, excel cond, loaded. Ext. 502.

56 SUNLINER CONV - Thunderbird 292 eng, excel running cond, chrome compl, vinyl top good, body fair. \$100. Bateman, Ext. 2898.

### Boats & Marine Supplies

17' THOMPSON 1961 - Fully equipped, elec shift, 1964-75 hp Evinrude, navy top, trailer. \$950. Rus, Ext. 2943.

19' FIBERGLASS SLOOP - Pearson "Resolute," Ratsay main & jib, 6 hp Chrysler, bracket & 2 tanks, many extras, entire outfit like new. \$2000. 732-3296 after 5:30.

OUT-RIGGER BASES - \$12. 878-0792.

STAR-1233 - Tight, 2 sets of sails. \$200. Ext. 2981.

16' BOSTON WHALER - "Sakonnet" model, 60 hp Evinrude, trailer, extras. B. Museler, Ext. 7676.

16' FIBERGLASS BOAT - Sportcraft '66, 40 hp elec start Evinrude '66, navy top, side curtains, cover, in water. \$1200. Ext. 7353, 587-9372.

BOAT TRAILER - "Tee Nee," takes up to 18' boat, good cond. \$75. Paul, Ext. 2968, HR3-2507.

ZOBEL 17' INBOARD SKIFF - 60 hp Palmer, fully equipped. \$300. E. Kaplan, Ext. 2411.

BLUE JAY CLASS SAILBOAT - Excel cond, drysailed, Hard Dynamint sails & spinnaker, fibreglassed, comp racing hardware, w/trailer. \$750. B. Lomonosoff, Ext. 7386, AT6-0294.

20' CABIN CRUISER - 95 hp inboard f.w.c., in water, extras, must be seen. Petruk, Ext. 2142, AT6-0124.

### Miscellaneous

INSULATED WADERS - Herters, size 12, 1 yr old, excel cond. \$20. Ext. 7172, 751-1660.

SAILING ANYONE? - 3 dimensional that is, fly north/south shore, miles at a glance. \$3 1/2 hr/seat, experienced certified pilot. A. Roesch, Ext. 7667.

COUCH & 2 UPHOLSTERED CHAIRS - Excel cond, \$40; gas stove & hood, excel, \$40. Jerry, Ext. 588.

NORGE ELEC RANGE - 3 yrs old, 30" deluxe model, excel cond. \$100. H. Myers, 286-3320.

FALL SALE - Crib & mattress, high-junior chair, folding bed & mattress, outdoor metal table & chairs, end table lamps, fish tank. 929-4568.

1969-S PROOF SETS - \$8/set. Steve, Ext. 316, 585-8395.

CAMERA - Minolta, palm size, light wgt, w/leather case & strap, used once. \$30 new, sell for \$14. Howard, Ext. 2320.

MORSAN DELUXE TENT - 10'x18', 2 rms, sleeps 8. \$80. Crump, Ext. 2212.

67 STARCRAFT CAMPER - Dbl dinette, screened add a rm, stove, sink, spare tire, self-contained, sleeps 8. J. Richter, 286-3739.

SEARS DELUXE WASHING MACHINE - Auto, 4 yrs old, used very little, like new. \$75 firm. 878-1574 after 6.

NIMROD CAMELOT CAMPER 69 - Low profile, insulated hard top, 17' open, sleeps 7. Ext. 2891, AN5-0501.

MISC BEE KEEPING EQUIPMENT - Hive bodies, supers, frames, etc. R. Ince, Ext. 7692, AT6-0682 after 6.

HANDSOME CORNER CABINET - W/15" co-axial speaker, best offer. Ext. 7453.

SURF CASTING ROD & LUXOR REEL - A-1 cond, box of lures incl. Cost \$140, asking \$65. Luccioni, Ext. 2950, 732-3762.

12 STRING MARTIN GUITAR - Used twice, must sell, best offer accepted. 475-8054, 5-7.

GIRLS COAT - New, 100% wool, pile lining, camel color, size 10-12. \$13.95. 878-0792.

YARD-GARAGE SALE - 4 yards in 1, 20 Chichester Ave., Center Moriches, Oct. 24 & 25, 10-3. 878-2465.

ASH BLOND FALL - 100% human hair, worn only a few times. Orig cost \$75, asking \$50. 286-8249.

PIANO - "Upright Grand," good cond, need rm, must sell. Best offer over \$75. Ext. 698, SE2-5218 after 5:30.

ORANGE COUCH - 90", excel cond, 2 yrs old, always kept covered. \$100. O'Connor, 286-9725.

NATIONAL ELEC FOOD SLICER - 6 1/2", excel cond. \$10. H. Jewett, Ext. 2800.

BED W/BOOKCASE HEADBOARD - Box spring & mattress in good cond, full size. \$30. M. Goldberg, Ext. 7674, 473-9354 eves.

DANISH DIN RM SET - Oval table, like new, \$75; custom made lightolier pole lamp for cathedral ceiling, \$20; solid maple 5 drawer chest, \$25. LT9-5075 after 3.

COMBINATION JUICER & GRINDER - Best made. List for \$250 - best offer. Ext. 7453.

HAMMARLUND BUSINESS BAND FM RADIO - 2 mobil & 1 base plus antenna. Sacrifice, \$700. 234-9837.

BUGGY THAYER - \$8; Schwinn 20" bike, \$10; lg scooter, \$4; storm windows, 50 1/2x31 1/4; adjustable dress form, \$10. AT9-0886.

GE PORTABLE DISHWASHER - W/faucet attachment, less than 1 yr old. Cost \$140 w/taxes, sale \$100. J. Zahra, Ext. 7382-3, 473-2889 after 5:30.

COLEMAN LANTERN - Dual mantles, chrome plated, \$12; white gas Delta-Rockwell Compact-Tool 9" table saw, \$30. Sollanek, Ext. 7111.

ELEC MOTOR - 1 hp, 220/440 volts, ball bearing, heavy duty. \$25. McKenna, Ext. 7187.

SKIS - 7'0" Head Standard, Cubco safety bindings avail. C. Foelix, Ext. 2334.

FRENCH DOORS - Pr for opening 48" wide, \$20; kitchen light, enclosed 4 bulb incandescent, \$15. Ext. 2191.

LEOTARDS - Blk short sleeve, sizes 12-14, misses petite, \$1 ea; Brownie uniform, hat, tie, belt, size 10, \$3. Petruk, AT6-0124.

PORTABLE STEREO - Motorola, excel cond. Retail \$200, sell \$50 or best offer. K. Mantai, Ext. 2868.

CORNET - Olds Ambassador, w/case & mouthpiece, perf, like new cond. \$90. Bill, Ext. 2392.

16 MM MOTION PICTURE CAMERA - Paillard Boxex, Swiss made, very good cond, at fraction of orig cost. \$75. Bill, Ext. 2393.

GIRL'S COAT - Size 12, brown, all wool, fully lined, like new, must be seen. Warren D., Ext. 7677, HR3-2820.

RIFLE - 270 cal, Winchester model 770, bolt action, brand new. \$130 firm. 924-8547 after 5:30.

TWIN BUNK BEDS - W/springs & mattress. \$40. Stan, AT6-0104 after 5.

AURORA RACING SET - 30' track, controls, bridges, 4 cars, speed corners, etc. 281-9163 after 7.

ELEC BASS GUITAR - W/case, violin-shaped body, dbl pickup, excel cond, 2 yrs old. \$60. 286-0906 eves.

US PROOF SETS - 20 - 1969-S, \$140; 20 - 1968-S, \$165. Ext. 2191.

DINETTE SET - Apt size, table w/2 chairs, good cond. John, Ext. 629.

35 MM SLIDE PROJECTOR - Ultra compact, in 2 neat vinyl carrying bags, made by Olympus Penn, wide angle lens, compl w/stack loader. Torre, Ext. 423.

TRUMPET - Getzen, w/case & mouthpiece. \$65. Bill, Ext. 2393.

BOA CONSTRICTOR - 4' long, healthy, non-poisonous, harmless. Frank, Ext. 567.

CHEST OF DRAWERS - W/mirror, dressing table w/ mirror, sm cupboard, dbl bed w/mattress, night stand, all for \$75; baby bed w/mattress, \$25. 289-8370 eves.

REFRIG - Dinette set w/6 chairs, \$25 ea; chest of drawers, child's desk, sm tables, rocker, arm chair, \$3-5 ea. 289-8370 eves.

CEDAR SHINGLES - Natural, 3 bundles (3/4 sq), \$20; roofing shingles, pastel brown, 2 bundles (1/2 sq), triple A, \$4. Clarence, Ext. 2349, LT9-4538.

COMMERCIAL SEWING MACHINE - Excel cond. 281-5328.

9'x12' BURGUNDY CARPET - W/padding, 9 mos old, \$60; 2 spd Frigidaire auto washer, \$50. 727-7046, 9 to 1.

PORTABLE CRIB - For baby 1-6 mos, \$3; travel iron, \$2; baby bath, \$1. Ext. 7718.

WESTINGHOUSE ELEC RANGE - 4 burners, see-through oven, excel cond, sell because of kitchen remodeling. Best offer. 286-3742.

STORMS & SCREENS - 2 pr 55x32, 2 prs 47x31. Best offer. Ext. 7753, 286-3742.

SEARS BELT SANDER - 4 in, like new. \$40 firm. F. Reeve, Ext. 672.

IRONRITE MANGLE - Needs new cord & paint job, motor good. As is, \$15. 727-7046, 9 to 1.

SLIDE PROJECTOR - Argus electromatic, uses Air-quiet cartridge, auto time control, remote reset, manual overdrive, mint cond. \$25. C. Schmidt, Ext. 573, 744-3312 after 5:30.

APACHE EAGLE TENT CAMPER - Sleeps 4, alum cover, canopy, extras, excel cond. \$500. B. Johnson, Ext. 567.

DIN RM SET - 9 pc, white birch, good cond. \$125. HR3-0424 after 6.

### 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

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

BLUE POINT - 3 bedrm ranch, liv rm, din rm, sun porch, fireplace, built in bookcases, expansion attic, fenced patio, 160x150 wooded plot. \$30,000. By appointment only, 363-9513 after 5.

SOUTHAVEN - 6 rm colonial ranch on 1/2 acre, 1 1/2 baths, fireplace, garage, 3 1/2 yrs old, 6% mort. \$24,500. J. Conant, Ext. 7804, 286-2266.

SHOREHAM - Cape Cod, 7 lg rms, 2 full baths, porch, 2 car garage, full basement, wooded lot, deeded beach rights, 7 yrs old. 744-2216.

### For Rent

3 BEDRM HOUSE - Furn, close to Lab. Ext. 7487, 281-8676.

### Wanted

TRAVELING TRUNKS - About 3x2x2' or larger. Dave, Ext. 7363, 2772.

IEEE MEMBERS - Would you like to serve as your department's IEEE publicity rep? Takes 5 min of your time per month. G. Rakowsky, Ext. 7463.

PERSONS WISHING TO STUDY - Piano or accordion, new students or old, my home or yours. Don, 281-8044 after 5.

BLOOD DONATIONS - For 4 yr old hemophiliac son of lab employee & other eastern Suffolk hemophiliac children. If interested in donating on Mon, Oct. 20 in Patchogue, please call J. Dorning, Ext. 7413.

HOMES - For 5 long-haired kittens, 3 solid blk, 2 gray, 7 wks old; also older kittens. Weeks, Ext. 346, 751-1149.

ELEC FURNACE - For melting lead, any size. P. Sparrow, Ext. 2478/2753.

GIRL'S 20" BICYCLE - Nardi, Ext. 7243, 286-8512.

TRIPLE S BLUE STAMPS - Need about 6 bks, willing to purchase. M. Strongson, Ext. 2727.

BABYSITTING JOBS - High school girl avail to babysit eves in Bellport, E. Patchogue, & Patchogue area. Janet, 286-0906.

TARGET SHOOTERS - For Rifle Team in LI Industrial League, 22 cal, indoors, Sept-May. R. Domish, Ext. 2404.

BABYSITTING JOBS - Reliable woman will care for your children, preferably my home, E. Patchogue. GR5-2145.

WOMAN OR AMBITIOUS TEEN - To do weekly ironing, will deliver & pick up, Patchogue area. GR5-5970 after 6.

USED CAR - 65, 66, 67 Chevy Impala, Olds Vista Cruiser, or Buick Sport Wagon, full pwr, air cond, must be in excel cond. Andy, Ext. 7642, HR3-3077.

SNOW BLOWER - Sm, prefer self propelled, cond unimportant. Chris, Ext. 7677.

### Carpools

JOIN CARPOOL - W. Patchogue-Blue Point area. J. Costanzo, Ext. 548, AT9-0876.

PAYING RIDER - Would like ride from E. Islip. A. Sell, Ext. 7775.

DRIVER DESIRED - From W. Islip. Dmitri, Ext. 7227.

DRIVERS WANTED - To complete existing 2-member carpool from Riverhead. Bill, Ext. 369.

### Lost & Found

LOST - Bicycle lock & chain. C. Reed, Ext. 2248.

**TUNE IN!**

comments  
questions  
complaints

### Classified Ad Policy

Deadline is 12 noon Friday for publication the following 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