



Brookhaven Semester Program Colleges Here for Conference

Today and tomorrow the Laboratory will host a conference on the Brookhaven Semester. The conferees will be representatives from the ten colleges participating in the program - Grambling, Miles, Jarvis Christian, Prairie View A & M, Texas, Talledega, Knoxville, Tougaloo, Langston University and Tuskegee Institute. Dr. A.P. Kennedy of Grambling and Director of the program will be in attendance.

After a welcome today by Dr. G.H. Vineyard, BNL's Deputy Director, Dr. R.C. Anderson of BNL will begin today's session by speaking to the group on the history and development of BNL. Following this, the film "Brookhaven Spectrum" will be shown.

Later in the program I.W. Cole of BNL's Personnel Department will discuss the Semester Program. A tour of the Laboratory will round out Thursday's schedule.

Friday's session will be devoted to discussion of the department programs.

The purpose of the Conference is to make the representatives of the various participating colleges aware of the scientific programs at Brookhaven and to discuss ways and means to improve the Semester Program so that it may be a more meaningful aid to the individual college science programs.

President Proclaims Fire Prevention Week

A proclamation issued by President Nixon calls attention to the week of October 5 through October 11 as Fire Prevention Week. On display at the Cafeteria are posters and pamphlets that will further amplify the President's statement about the need for a review of present fire safety awareness.

In his proclamation, the President said, "In an era when technological advancement has brought to our Nation an almost unbelievable array of conveniences and comfort, we are still plagued by the hazard of man's oldest implement for self-preservation - fire. The potential dangers associated with fire still present a real threat to human life and property.

"The present level of our annual fire losses - more than 12,000 lives and over \$2 billion in property - is a measure of our failure to heed fire hazards and to correct them. It is essential that every citizen recognize that such losses can be avoided, but only by personal involvement, determination, and a realization that fires need not occur.

"I urge that we, as a nation and as individual citizens, assume a positive approach to fire prevention through the support of community fire departments, State and local governments, the National Fire Protection Association, business and civic groups, and public organizations that are trying to combat the senseless waste of human life and national resources.

"I also urge Federal agencies, through the Federal Fire Council, to initiate and carry on effective fire prevention programs not only for the protection of Government employees and property but also for the betterment of all segments of our society."

Patchogue Adult Ed Fall Program Announced

The fall semester of the expanded Patchogue-Medford Adult Education program will begin on October 14. More than 75 courses and workshops are offered, with many new opportunities for vocational training, educational advancement, cultural enrichment, parent education, and recreational activities.

The classes are held at the Patchogue High School on Saxton St., one block north of the Sunrise Highway off Washington St. Copies of the program, which includes a registration form, can be requested from BNL's Office of Scientific Personnel (Ext. 493) in the Administration Building.

Multi-Million Dollar Moon Material Arrives



BNL's Dr. Raymnd Stoenner comes off the escalator at La Guardia airport last Friday night carrying \$32 million dollars worth of moon rocks destined for both BNL and Stony Brook. The lunar material was carried in an ordinary brief case (circled) and was guarded after the plane landed by BNL Patrolman Jim Goode of the Security Division. Other passengers on the plane and in the terminal were unaware of the important and valuable material that was carried by Stoenner. —Humphrey



The precious moon material is finally exposed to the earth's atmosphere at BNL by Dr. Raymond Stoenner who carried five containers of lunar samples from the Lunar Receiving Laboratory in Houston, Texas. This picture is almost actual size of the 12-gram piece of sample #10057 that is on display tomorrow and Saturday.

Moon Sample Here At BNL

A twelve-gram piece of lunar rock will be on display for the public at Brookhaven National Laboratory this Friday and Saturday, October 10 and 11, from 9:30 a.m. to 3 p.m. on Friday, and from 9:30 a.m. to 4 p.m. on Saturday.

The lunar rock as well as other meteorite specimens will be displayed in the North Room of the Brookhaven Center.

Traffic and Parking

Visitors are requested to enter the Laboratory through the Main Gate off the William Floyd Parkway and follow the signs and directions as given by the Laboratory police for parking and viewing the sample. Visitors should expect to spend approximately 30 minutes to park their car, view the sample, and return to their car.

Photographs

Visitors will be given a printed photo of the lunar sample. However, those who wish to take their own photographs may do so. The lunar rock will be lighted so that pictures can be taken without a flash-bulb.

Groups

School children coming as a group should be accompanied by a minimum of one adult for every ten children.

Other Viewing Opportunities

If the interest of the public in seeing the lunar sample is sufficiently great that it is necessary to turn people away on the above dates, the sample will be placed on public display on other days and weekends to be announced later in the month.

In addition to the exhibit at Brookhaven National Laboratory, SUNY at Stony Brook will exhibit their lunar material on two consecutive Sundays, October 12 and 19.

The 12-gram rock on exhibit at Brookhaven National Laboratory is a vesicular fine-grained basalt type rock. It is designated as specimen number 10057, 28 by NASA, and is part of a larger rock that weighed 919 grams when it was brought back to earth from the moon by the Apollo 11 astronauts.

According to Dr. Raymond Davis, Senior Scientist, and a principal investigator for the NASA lunar research effort, the minerals in the rock are feldspar, pyroxene and ilmenite. The specimen is abundant in spherical vesicules (cavities) from one-half to one and one-half millimeters in diameter. The rock contains two sets of fine fractures and is considered a moderately shocked rock, indicating that it was thrown out of the lunar surface by a meteorite impact. The surface shows a number of fine craters formed by micro-meteorite impacts when the rock was resting on the lunar surface.

Working with Dr. Davis are Dr. Raymond Stoenner, Chemist, and Dr. Warren Lyman, Assistant Chemist, of the Chemistry Department.

The research at BNL will involve heating the sample to drive off the gasses it contains, and then analyzing the gasses for their radioactivity. The principal gasses to be analyzed are argon, krypton, and xenon. By comparing their analysis of the radioactive (non-stable) gas, which has a known half-life, with the stable isotopes of the same gas, much new information can be learned about the moon history, and hence add to man's knowledge about outer space and our universe.

Coming Attractions

- 10/10-11 **Moon Rock Exhibit**
(Brookhaven Center)
- 10/15 **BNL Lecture**
V. Radeka
(Berkner Hall - 8:00 p.m.)
- 10/20 **French Group of BNL**
Prof. Konrad Bieber
(Conference Center - 8:30 p.m.)
- 11/10 **French Group Movies**
"Carnival in Flanders"
(English sub-titles)

Retirement Plan Insert Included With Bulletin

A special insert article on the BNL-AUI Retirement Plan is included with this week's *Brookhaven Bulletin*.

This special article points up the major features of the retirement plan and gives several illustrations of the retirement income a typical Laboratory employee might expect to receive after a career of participation in the plan.

Additional details on the plan are contained in the green cover booklet "For Your Future Security - AUI Retirement Income Plan." Additional copies of the booklet are available at the Personnel Office.

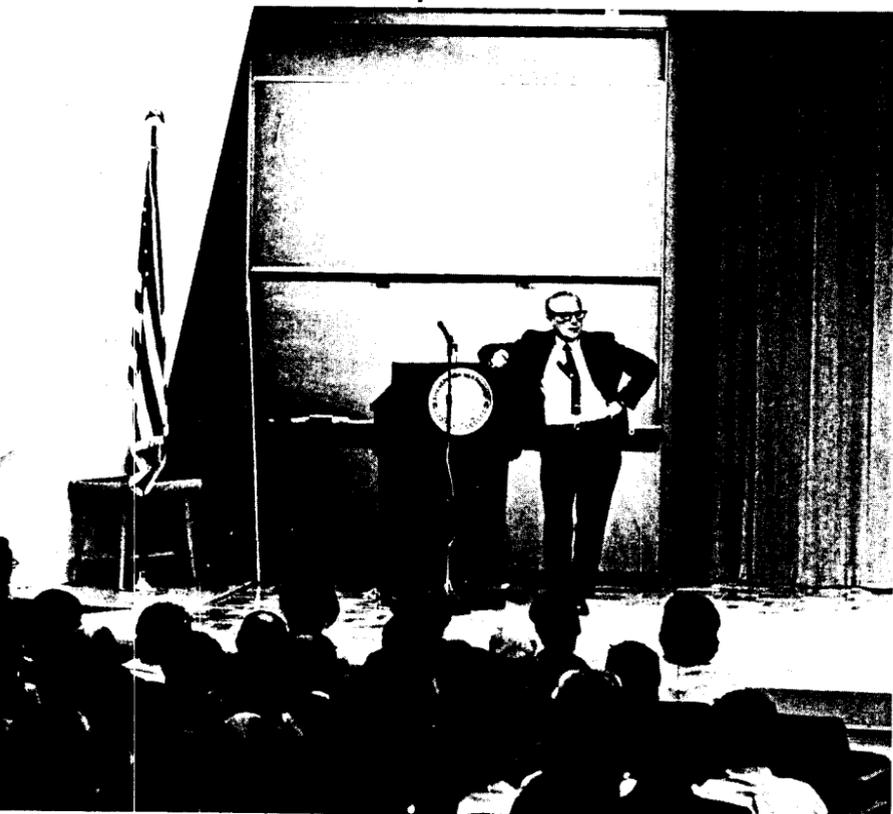
While the article does point out several features of the plan that are of general interest, it cannot cover all of the numerous individual situations that may occur. Employees having questions relating to a personal retirement situation are urged to contact Personnel Services, Ext. 2106, or write to TIAA-CREF directly.

Hold That Tiger!



Harvey Lane of Supply and Material has a tiger salamander by the tail as he and Ronald Mulderig try to figure what to do with it. The amphibian wandered into the bulk warehouse last week, and was captured by Emil Caiazza of Illustration. The tiger is now residing in the home of Fred Hill of Plant E & P, and has become a friendly pet. —Humphrey

Brain Control Is AUI Lecture Subject



Professor Kenneth E. Moyer, ninth lecturer in the AUI Distinguished Lecture series, kept an attentive audience on the edge of their seats last Thursday when he spoke of "Some Implications of Recent Brain Research for Behavior Control." The lecture at Berkner Hall was followed by a spirited question and answer session moderated by Dr. George Cotzias. —Humphrey



After the Moyer lecture Dr. Lester Corliss and Mrs. Corliss continued discussion of the subject with Dr. Simon Freed also of the Chemistry Department.

Here and There

Dolores del Castillo

Walter Hamilton (Chemistry) has recently returned from Scotland and England. He attended the Faraday Society Discussions on "Motion in Molecular Crystals" in Oxford, September 16-18, where he gave an invited paper entitled "Methyl Group Rotation and the Low Temperature Transition in Hexamethylbenzene: A Neutron Scattering Study." He also presented a paper at a meeting of the Chemical Society held in Southampton, September 23-25, on "Neutron Diffraction Study of the Crystal Structure of Sodium Nitroprusside." His itinerary included visits to the Universities of Glasgow, Warwick, and Sussex, and the Atomic Energy Research Establishment at Harwell.

Dr. Leon J. Goodman (Medical) attended the recent symposium on Radiobiology of Fast Neutrons held in Manchester, England, September 29 and 30.

A.O. Allen (Chemistry) has been appointed a member of the Editorial Board of the *Journal of Physical Chemistry* for a five-year term beginning January 1, 1970.

The following Chemistry staff members participated in the American Chemical Society meeting held in New York City, September 7-12:

Presenting papers were: E.F. Epstein (co-authors I. Bernal, A.W. Herlinger, T.V. Long); H.M. Widmer; G. Davies (co-authors N. Sutin and K.O. Watkins); I. Bernal (co-author J.S. Ricci); Walter Hamilton; J. Gilat (co-author J.R. Grover).

A.O. Allen, Robb Grover and Louis Remsburg served as session chairmen.

Jerry Hudis (Chemistry) gave a talk on high energy nuclear reactions at Dartmouth College on September 26.

Vincent R. O'Leary and Henry C. Grahn (DO) attended the annual Budget Officers' meeting held at Lawrence Radiation Laboratory, Berkeley, California, October 1-3.

Jean-Rene Simon Maisin of CEN-MOL will visit at the Laboratory on October 27 for discussions on acute and late radiation effects.

Origins and Kinds Of Noise Explained

Many experiments in physics, chemistry and biology depend on the ability to separate observed physical quantities from noise. Dr. Veljko Radeka, Instrumentation and Health Physics, will explore this fascinating and practical subject in the 87th BNL Lecture in Berkner Hall on Wednesday, October 15, at 8 p.m.

In his lecture, titled "Noise in Physical Measurements," Radeka will show that in some experiments a simple (although not always satisfactory) rule applies that "one just has to live long enough" to achieve the



desired accuracy. In many experiments even this aphorism is not true. There are kinds of fluctuations which are widespread in nature, where accuracy cannot be improved by increasing the length of the observation.

Noise in most instances hides its physical origin. Noises with identical properties can be caused by different physical mechanisms. Understanding of these mechanisms is essential in reducing noise. Understanding noise properties is necessary to design the best measurement methods.

It will also be shown how this kind of understanding has been exploited in the development of low noise amplification and signal processing methods for nuclear spectroscopy and other areas.

Dr. Radeka attended the University of Zagreb, Yugoslavia and obtained his doctoral degree in 1961. Since 1955 he worked on nuclear instrumentation at the Institute Ruder Boskovic in Zagreb, and was a Docent at the University of Zagreb. He came to BNL as a visitor from 1962 to 1964, and became a staff member of the Instrumentation and Health Physics Department in 1967.

Dr. Radeka has contributed about 25 papers on various subjects in scientific instrumentation, fast electronics, nonlinear circuits, low noise amplification, and signal processing.

Dr. Radeka and his wife reside in Bellport with their two children.

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 15. Refreshments will be available in the lobby of Berkner Hall after the lecture.

Cafeteria Menu

Week Ending Oct. 16, 1969

Friday, October 10	
Old Fashioned Clam Chowder	
Fish 'N' Chips/Tartar Sauce	.65
Braised Swiss Steak/Smothered Onions	.70
Tuna Fish Pie/Pastry Cover	.80
Monday, October 13	
Vegetable Soup	
Baked Ham Steak/Grilled Pineapple	.65
Stuffed Cabbage	.65
Beef Burgundy/Noodles	.75
Tuesday, October 14	
Beef Barley Broth	
Roast Leg of Lamb/Mint Jelly	.70
Frankfurters Rolled in Bacon	.65
Baked Lasagna	.80
Wednesday, October 15	
Chicken Gumbo Soup	
Salisbury Steak/Onion Sauce	.65
Roast Stuffed Turkey/Giblet Gravy	.70
Broiled Swordfish/Lemon Butter	.75
Thursday, October 16	
Cream of Corn Soup	
Fried Chicken Cutlets/Cream Gravy	.65
Tender Corned Beef & Cabbage	.87
Spaghetti w/Meatballs in Hunter Sauce	.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:

In accordance with the policy of the Letters to the Editor column of the *Brookhaven Bulletin*, I request that the attached letter be printed in the issue dated October 2, 1969.

Harvey L. Speiss

Editor's Note: It is the policy of the Letters to the Editor column to acknowledge all letters submitted to this column either by personal phone call, a personal letter, or by publication in the *Brookhaven Bulletin*. It is the judgment of the editor of the *Brookhaven Bulletin* that decides which letters are of general interest and properly publishable in the *Brookhaven Bulletin*. The Letters to the Editor column does not intend to become involved in contract negotiations between Laboratory management and any one of the three Laboratory unions.

Dear Sir:

We wish to point out that Stony Brook will not be the only user at the AGS of the excellent magnet transporter described in your September 25th issue. The experimental apparatus shown in the picture is part of a collaborative effort by Northeastern University and Stony Brook designed to explore high mass boson production and two-body decay modes.

The transporter will also be used during the next AGS running period by the Lindebaum group in their experiment.

High Energy Counter Group
Stony Brook

Dear Sir:

Really, aren't you being a bit too familiar in last week's bulletin? By calling Mr. Dihydroxyphenylalanine a "gent", you are detracting from the dignity of his worldfamous name. Either call him a "gentleman" and let him keep his handsome moniker, or shorten his appellation to nickname size and call him Mr. Di-hi!

Claire Hull

Editor's Note: The "gent" Mrs. Hull is referring to was born of a typographical error in an article about AEC Chairman Glenn Seaborg's speech on medical advances with atomic research. The passage referred to was as follows: "One of the (a)gents investigated by Dr. Cotzias and his co-workers... was... (DOPA)."

Dear Sir:

The hunt for the quark seems to have inspired poets as much as it has scientists. This charming verse was written by Felicia Lamport in an English science magazine.

*Once, we felt at home with Nature
if we knew the nomenclature
Of a dozen trees and flowers in the park.
She was then our own dear girlie,
but she turned arcane and surly
From the moment modern science made its mark.
If we try to sing her praises
in the old familiar phrases
She says "Blast off!"
in response to "Hark! the lark!"
And requires us to dote on
the electron and the proton
While we're floundering bewildered in the dark.
So we strain to get in orbit
with this science and absorb it
With the glimmer of a comprehending spark,
But we've barely got the laser
separated from the maser
When we're thrown into the hunting of the quark.*

—Dennis Puleston

Arrivals & Departures

Arrivals

Gerard M. Blackford	Director's
David R. Goosman	Physics
Janice J. Farness	Fiscal
Michael J. Green	Biology
Bruce R. Himberger	P.E.P.
Peter Hubberstey	App. Science
Richard E. Kendrick	Biology
Donald M. Lazarus	Accelerator
David T. McGrath	P.E.P.
Demetris Pandoulas	Physics
Emil J. Samuelsen	Physics
Burt L. Smith	Physics
Fred F. Stahman	P.E.P.

Departures

Miriam L. Grant	Director's
Heinrich Heesch	App. Math.
George B. McKee	Reactor



Dr. George Cotzias (left) of Medical introduced Professor Kenneth Moyer after the audience and Professor Moyer was welcomed by Dr. Maurice Goldhaber, BNL Director (right).

Iceland Ho!

by Bernice Petersen

If you are tired of the same old packaged tours and overpopulation in your summer resorts, there's an off-beat trip being planned by a spirited group on site. Get off the treadmill and explore a country as yet undiscovered by the Jet Set. Take your spirit of adventure, your camping gear, hiking boots, some sturdy clothes and off you go to Iceland for three weeks next summer with the Mountain Club.

Sparked by Garrett Hughes, an Operations Engineer in the Accelerator Department, the group is planning to establish a base camp from which various expeditions will flow. To see as much of the country as possible, the camp will be moved to a different location each week. You don't have to be a Sir Edmund Hillary to participate. If hanging by your fingernails from a rock isn't your bag, don't let that stop you from going. In fact, climbing is only one aspect of the trip. Backpacking, hiking, photography, fishing and just discovering the flora and fauna are some of the activities planned. If you don't wish to spend the entire three weeks in camp, you can whoop it up in Reykjavik (the capital), or elsewhere, and join the group during change-over of base camps.

Iceland was formed by recent (geological time) volcanic activity and thus you can find lava fields and hot springs co-existing with glaciers in the island's interior. Along the coast, beautiful fjords provide natural harbors for the country's fishing fleet. For an up-to-date look at the country, it is suggested you read the August 1969 issue of the National Geographic Magazine.

At the time when New York will be bogged down in 90° heat, this island in the North Atlantic will have a temperature of about 52° F. and the air is crystal clear the year round, according to Gary Hughes who has been there twice. An enthusiastic outdoorsman, Gary went to Antarctica for a year, upon graduation from college, to do research for the Bartol Research Foundation. He was based at McMurdo Station and says that Ross Island in the Antarctic is not unlike Iceland.

The Mountain Club is the successor to the old Outing Club and their outings are varied: climbing in the Adirondacks, New Hampshire and Maine; a canoe trip up the



Members of the Mountain Club on the ascent up Shawangunk Mts. (near New Platz, N.Y.)

Delaware; skiing; hiking on Fire Island and caving in West Virginia. According to Joe Fineman (Physical Review) President of the Club, they are interested in just about anything "nonmotorized."

The Club recently visited Shawangunk Mountains (near New Paltz, N.Y.) which is one of its favorite spots. Their next outing ran from October 3 through October 10, camping in the White Mountains of New Hampshire.

For those who would like a trial run before setting off for Iceland, check the Club's calendar and go off on some short trips with them. They do have some camping equipment for rent and Art Huffman (Physics) is the man in charge of this department.

Plans for the Iceland trip are just beginning to go from the general to the specific. Actual locations on the island, travel details and costs are yet to be determined. It is expected, however, that costs will be less than a comparable vacation in the Rockies.

The Club wants to hear of your ideas and your interest. Call Gary Hughes on Extension 7541 or at his home 281-4419 and he will be happy to discuss it with you.



The view from the top - similar to one that will be seen in Iceland next summer by the BNL adventurers.

New Pool Season Started

The Swimming Pool is now open on the following schedule.

Monday through Friday

12:00 Noon - 1:00 p.m.	Employees Only
1:00 p.m. - 3:00 p.m.	Employees, Family, Visitors
5:00 p.m. - 9:30 p.m.	Employees, Family, Visitors

The Fall through Spring Season will run to mid-June 1970, and the following admission schedule will be in effect:

Daily - Employee (Family Member)	50¢
Visitor	75¢
Season - Unlimited Swims	
Employee	\$10.00
Family Member	10.00
Family	20.00

Visitors must accompany the employee who is permitted to bring a maximum of 5 per family each visit.

Season passes may be purchased either at the Pool during scheduled hours or at the Recreation Office.

November Fifth Picked For Tea and Sherry Party

The BNL Hospitality Committee has announced that Wednesday, November 5, has been selected for their sixth semi-annual tea and sherry party. The tea will be held from 3 to 6 p.m. in the Brookhaven Center for all ladies who are employees or wives of employees.

The theme chosen for this party is "world-wide treasures." It is hoped that a large selection of articles from this country and abroad will be brought in for display. A letter with additional details and an entry blank will be distributed next week to all employees, but don't wait for the letter to arrive - make a note on your calendar now!

Radio Club Meeting

The regular monthly meeting of the Radio Club will be held on Thursday, October 9, 8:00 p.m., at the Recreation Building.

Bowling News

Irma Carl

Purple League

Missed last week's "purple" news due to vacation. Sorry 'bout that.

Repulsives broke the tie for first place and now lead the Designers by one point. Stan MacCormack had the best series (554) during the two weeks. Marshall Bull a 525, Joe Cuccia 523, Worth Austin 516, Charlie Zavesky hit twice with a 509 and a 505. Charles Torre established a new high gross game for the league with a 278.

Red League

Loudspeaker was working overtime at Port Jeff again. J. Ferrante rolled a 203/202/577. J. Lee a 220/201. J. Cain and A. Anderson each rolled a 221; C. Schmidt a 220; R. Larsen a 214; and T. Glover and R. Newlands a 206 each.

Pink League

Mona Vitale (216/550) leads the way with high average of 187. Grace Fales (177-490) is helping the Pinsplitters to create a stir in the team standings. Without a doubt the Pink League "Star for a Night" was Kay Hunt who bowled a great game of 204 which was almost, but not quite, 100 pins above average. Our first WIBC Award will be presented to Carol Beckner for her triple score.

BNL Artists - A Warning

D. Puleston

For those artists who have not yet acted on last week's announcement, this will come as a warning. November 17 is one week closer, and it is none too soon to get to work on producing your masterpieces. For that is the date of the opening of the fourth BERA Members Art Exhibition. All types of hand-made art may be submitted for exhibit. This will include drawings, paintings, sculpture, ceramics, metal work, etc., but not photographs and other works of art produced by mechanical means. Employees and members of their immediate families who live with them may exhibit. The work of children will be accepted if, and only if, it constitutes a serious effort. Parents must use discrimination in submitting such exhibits. Past experience indicates that the number of exhibitors will be large, so it will be necessary to restrict works to a maximum of two per medium from each artist.

A forthcoming issue of the Bulletin will give instructions, on registration for the Exhibition, so that a catalog can be prepared.

Football Notes

by Jack Brennan

Time to give a little copy to probably the most important man on the team; the man who throws the ball. The passers are Tom Prach of the Slow Pokes, Garry Hughes of the Kickers, Dave Menago of AMD, Dave Comstock of Chemistry, Lew Snead of Physics and Skelly Frey of the Rat Pack. The Staggering Six and the Bio Meds alternate passers.

The number is now down to two undefeated clubs, setting up tonight's game between the Slow Pokes and the Rat Pack. About 7:00 p.m. tonight the number will be down to one.

The Slow Pokes knocked off Applied Math 37-6 as Andy Fogarty and Murray Gottfried of the Pokes scored two T.D.'s each.

The Rat Pack beat Chemistry 33-12 as Walt Reams scored four T.D.'s.

The Kickers and Physics joined the winner's circle for the first time. Kickers beating the Staggering Six 32-6 as Ed Gill of the Kickers had two T.D.'s. Physics beat Bio-Meds 19-0 as Jack Crow of Physics scored two T.D.'s.

Gym To Be Closed

In order to provide time for the preparation and presentation of Visitor's Days, October 18-25, and the scheduled Lab-wide BERA Dance on November 7, the Gymnasium will be closed for all physical activities beginning October 13. It will re-open on its fall schedule at 5:00 p.m. on Tuesday, November 11.

The Swimming Pool will remain open as scheduled.

World Series Tickets

The winners of the drawing held on October 6 were as follows:

First Home Game

Box Seats - J. Mallins, B. Pollack, R. Cody, P. McHugh, E. Willen, J. Scandizzo, L. Schairer, P. Swan.

Reserved Seats - T. Petty, C. J. Shellebarger, L. Husain, L. Musso.

Second Home Game

Box Seats - J. Niegacki, M. Perrier, H. Mason, R. Nelson, W. Ruppert, J. Cherrick, V. Lyons, E. Roberts.

Reserved Seats - A. Mohlmann, W. Vogel, P. Hlavac, H. LaSauce.

Third Home Game

Box Seats - P. Herley, W. Austin, Sr., R. M. Brown, J. Redzinck, D. Franch, J. Scott, M. Howley, R. Glasmann.

Reserved Seats - K. Rabe, L. Caiola, A. Cody, R. Davin.

Soccer

M.T. Hutchings

Southampton College 6 vs. BNL 3 (4-2)

Playing on one of the finest fields on Long Island against a highly touted Southampton team, the BNL soccer team had their hands full last Saturday, September 28th. Nevertheless, ten minutes after the start Webster put us ahead with a terrific twenty yard shot. Within minutes Southampton missed a penalty, then Webster and Ascoli had to leave the game with a sprained ankle and pulled muscle, respectively, reducing us to only ten men. Southampton soon equalized thereafter, but Gelletly replied five minutes later netting a cross from Rorvik. Two penalties awarded to the College in quick succession for hands were converted and gave them the lead for the first time. A man short, BNL defense were hard worked and a few minutes before the interval the ex-Corning, All-American, Nzimiro increased the College lead. The start of the second half saw BNL on the offensive, and Gelletly scored his second goal from a clever pass by Cox to make it 3-4. However, the remainder of the game found Southampton testing the BNL defense, and despite outstanding defensive play by Fairchild, they got two more goals before the final whistle. Note: Return game at Southampton, 10:00 a.m., October 11th. Come along and cheer our players on! (Reported by John McCafferty)

Suffolk Com. College 2 vs. BNL 4 (0-3)

Our first win of the season came in no uncertain manner on Tuesday, September 30th, against another large contingent of college players. In the first half we found that, for a change, we were quicker on the ball, and smooth play along the ground helped us to build up a 3-0 lead. Our goal was never really in danger. Gelletly put us ahead after about fifteen minutes, then Rorvik scored from a rebounded shot by Sack. Gelletly increased our lead from close range. At half time we were confronted with the spectacle of an army of new, fresh, Suffolk players approaching the pitch. Indeed, their forward line became much more lively, and pulled one back after about ten minutes. However, a goal by Cox secured our victory, and we held out, a little unsteadily at times, to the final whistle conceding only one more goal.

Practices 5:10 p.m. Mondays while the light lasts. How about a five-a-side inter-departmental league in the Gym this winter? Think about it!

Mountain Club Meeting

A Mountain Club meeting has been scheduled for Tuesday, Oct. 14, at 8 p.m. in the Recreation Building (apartment area). Uriel Vogel will have some slides of his recent trip thru Canada, and Bill Cohen will have some of his slides taken in Iceland. There will also be an equipment demonstration including hiking boots, tents, sleeping bags, packs, clothing, and climbing gear. Anyone interested in joining us is welcome. Call Joe Fineman or Gary Hughes for more details if necessary.

Camera Club Meeting

There will be a meeting of the Camera Club at 8:00 p.m. on Monday October 13, 1969 in the recreation building of the apartment area. The meeting will be devoted to instruction on how to make personal Christmas cards. Members and prospective members invited.



Ed O'Bierne, Staff Services, pays attention to the road as he heads back for BNL from La Guardia with the precious moon material on the seat next to him. Dr. Raymond Stoenner keeps his hand on the briefcase containing the five packages for BNL and Stony Brook.



In the early stages of design and construction of the lunar material display, Mort Rosen, Photography (left) and Alex Hanson, Central Shops (right) check out lighting arrangements with the designer of the exhibit, Pierre Mercier, Plant Engineering and Planning, who designed the display and coordinated its construction.



Cabinetmaker Herman Geist made a special carrying case for transporting the moon rocks from the display stand to the safe after each display period.

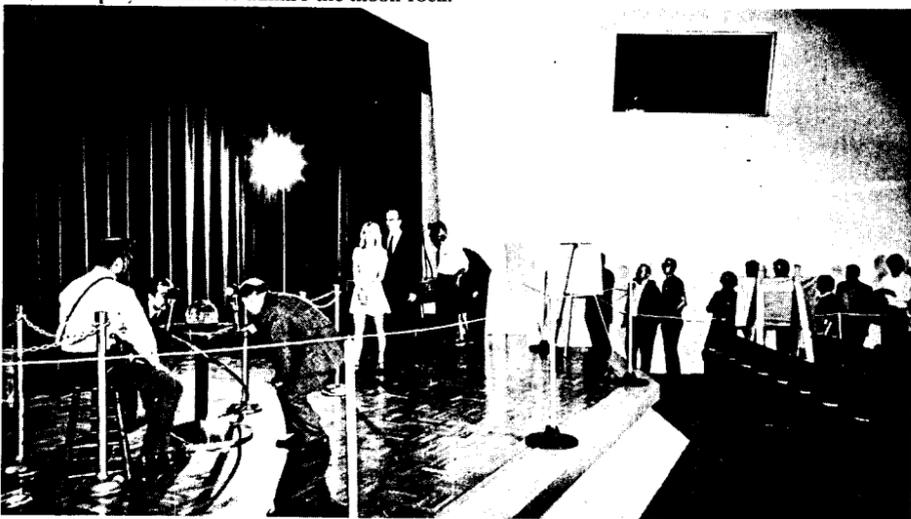


In the Heavy Machine Shop, Alex Hanson, Foreman; and Henry Jiminez, Assistant Foreman, check blueprints of the lunar display stand that Mike Martinez and Sal Camarda, Machinists, are building.



After photographing the lunar sample, Robert Smith, Senior Technical Photographer lets Patrolman Michael Montecalvo peer through the microscope for an enlarged view.

A new form of "Moon Madness" affected the employees of BNL on Tuesday and Wednesday as they filed into Berkner Hall to look at the displayed lunar sample. In addition to the moon rocks a separate display case contains meteorite fragments, a model of Apollo 11, a piece of Sputnik, and a piece of an explorer spaceship. In the three hour display period on Tuesday, more than 1,000 employees came to admire the moon rock.



Only A Rock – But What A Rock Is Our Lunar Sample

Photos by Humphrey

When Dr. Raymond Stoenner was asked in Houston by an awe-struck reporter what the moon rocks looked like, he answered, "They look like rocks."

Now, after a harrowing four days of travel, escort, photographs and telephone interviews, the rocks are still rocks, but with a certain glamour that can't be matched.

For "Dutch," it started quietly enough in Houston when he boarded the plane for La Guardia in New York. He changed planes somewhere along the way, and when he arrived at New York, his personal baggage was missing.

The moon rocks were never in safer hands all the time. All during the trip the briefcase with the lunar samples was firmly held by Dr. Stoenner.

At La Guardia when the plane landed, first aboard was Patrolman Jim Goode of Security, followed by Doug Humphrey of Photography. From that time on the issue was never in doubt. Ed O'Bierne, who drove the car back to the Lab never took his eyes off the road, and "Dutch" never relaxed his grip on the nondescript briefcase he was carrying.

When the car arrived at Police Headquarters after 10:30 p.m., Stoenner removed the samples from his briefcase and deposited them in the safe at Security. Several forms were signed by both Stoenner and the Security men, and all went home for a much-deserved rest.

But Saturday, things got lively again. At Photography, Bob Walton, Bob Smith,

Doug Humphrey, Harry Maile and Charles Torre were joined by Dr. Stoenner, his son, several Security guards, Gert Friedlander, Ed Burke, Alf Christoffersen, Jack Craig and Brookhaven Bulletin editor Carl Thien.

The moon samples were photographed, examined, photographed, photographed and then after a long day, were put back in the safe until the next day's work.

When the samples were examined by Gerhart Friedlander, Chairman of the Chemistry Department, he could only say "It's really awesome!" Everyone else who was involved could only echo "Gert's" sentiments.

Jim Goode, the Patrolman who was the escort officer from La Guardia, is a 6'2" man who formerly worked in Chemistry before transferring to Security. When apprised of the value put on the moon rocks, he said, "32 Million – that's a lot of cabbage!" "I'm glad I got the assignment," he said, "It will be something to think about in the years to come."

Everyone who has worked on the lunar display project feels the same way, Ginnie Sayre, who worries about the way the crowds will react; Alf Christoffersen, who first planned the display; Pete Mercier, who designed the display case; Sam Tucker, who made sure that all systems were "go" and the entire staff in the Machine Shops and the Carpenter Shops who made the display work were all touched by a certain moon magic that will take a long time to disappear from the BNL scene.



Safe at last in BNL, Dr. Stoenner places the five containers of lunar material in the safe at Police Headquarters. The small container at left contains the 12-gram BNL sample. Second from left is the BNL 8-gram sample. The other containers are material for Stony Brook.



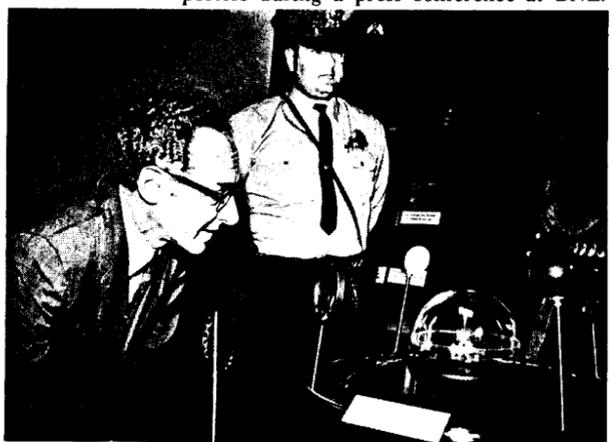
During the hours of display on Tuesday and Wednesday the moon sample was examined and photographed from every angle.



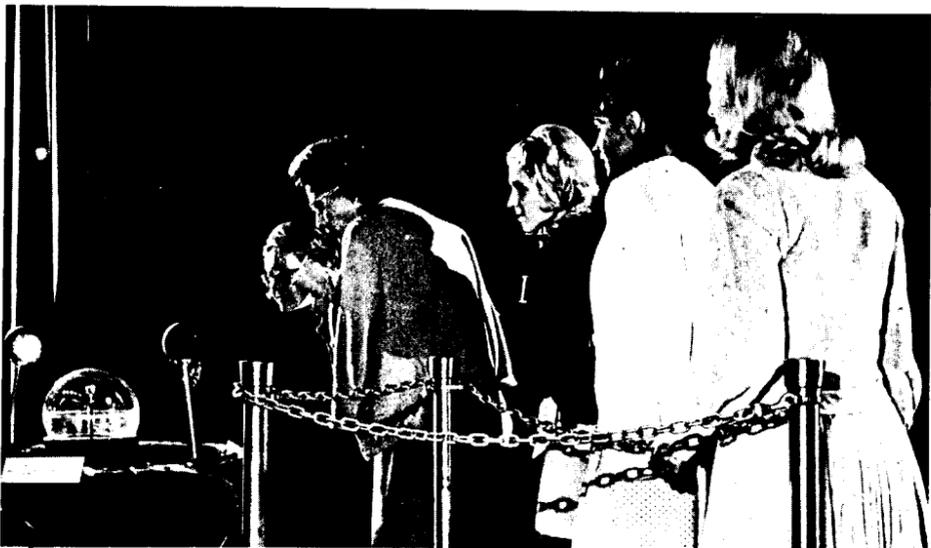
Dr. Raymond Davis, Principal Investigator for the lunar sample analysis, talks with reporters during a press conference at BNL.



Principal Investigator Raymond Davis (center) is flanked by co-investigators Raymond (Dutch) Stoenner and Warren Lyman as they get a close up look at the completed lunar display in Berkner Hall.



BNL Director Maurice Goldhaber examines the lunar sample displayed for employees at Berkner Hall. Patrolman Albert Berretta of the Security Division guards the display.



With a fine appreciation for valuable artifacts, these employees of the On-site banking facility came to look at the million-dollar-a-gram moon rock.



Laurie Pollard, Tool and Instrument Maker; Rolf Stark, Experimental Machinist; and Leo Fulhaber, Leadman, work on constructing the base for the lunar display stand.

Classified Advertisements

Positions Available

OILER-MECHANIC () - Central Shops. Application Deadline: October 15, 1969.

MACHINE TOOL REBUILDER (1) - Central Shops. Application Deadline: October 15, 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

63 VW BUG - Blk, completely overhauled eng, front end & brakes. 744-9193, 473-7818 after 7.

65 VW SEDAN - New clutch, muffler, radio, luggage rack, fires good. M. McAllister, SE2-9168.

62 MERCURY ENG - 350 cu in V8, good cond. \$15 (w/car attached). 475-5863 after 6.

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

61 FALCON STATION WAGON - 4 new tires, 2 snows. Kamran, 286-9765.

64 PONTIAC STARCHIEF - 4 dr, ps/pb, very good cond. \$600. Carol, Ext. 574.

65 VW - Needs tires & muffler. \$500. Steve, Ext. 7467, 7187.

59 ENGLISH FORD - Will sell car or parts. Larrie, 732-3815, 8-3; 698-1054, 6-9 p.m.

63 STUDEBAKER LARK - V8, std trans w/overdrive, 4 dr sedan, r/h, \$200. Ralph, Ext. 2814.

62 CHEVROLET - 4 dr, Bel Air station wagon, ps, auto trans, r/h, V8, needs brakes. \$250. B. McCabe, 744-5599 after 6.

2 SNOW TIRES - 8.25x14 w/wheels; 1 tire 8.25x14, 1 tire 8.50x14, both w/wheels; for '66-'69 Pontiac. A. Eamotte, HR3-1402.

58 LANCIA - Zugato body, Koni shocks, Nardi steer., mag wheels, Weber carb, needs much work. Reasonable. Ext. 2186.

SNOW TIRES - To fit VW, 2-5.60x15, used. \$10/pr. Dick, Ext. 7201.

HUBCAP - To fit Porsche, like new. Dick, Ext. 7201.

59 CHEVROLET - 2 dr sedan, sm crack in windshield, good for parts. T. Russell, Ext. 7668.

61 CHEVROLET - Std trans, 3 cyl, r/h, good cond, 4 dr. \$150. Bob, Ext. 2450, 289-0357.

CORVAIR CARBS - Rebuilt, '62 & up, \$15/pr; Corvaire gen, just rebuilt, \$10. Bob, Ext. 2450, 289-0357.

MUFFLER FOR CORVAIR - W/clamps. \$10. Ext. 2922.

TAKE YOUR PICK - '69 Mustang, h/tp, 2000 mi; '66 Porsche 912, 5 spd; '66 Ford station wagon. Jean, Ext. 7400, 878-2172.

65 HONDA - 90 cc eng, fully equipped, perf cond. \$175. Bill, 744-6433.

63 DODGE DART - Blue, sedan, very good cond, std trans, excel milege. \$425. Chandra, Ext. 2913, 397 (after work).

TIRES - 7.75x15 w/vr Firestone Deluxe Champion mounted on Ford rims. \$30/pr. I. Meyer, Ext. 463.

61 PEUGEOT - 4 dr, good transportation. \$75 firm. M. Sautter, YA4-3338.

Boats & Marine Supplies

JHA PROP - For 40 hp Johnson or Evinrude motor, heavy duty work, brand new - still in carton. List at \$23.50, my price \$14. 281-8952 after 1700 hrs.

95 HP GRAY FOR PARTS - Comp w/reverse & reduction gear, generator & starter rebuilt this yr, all pistons, bearings, etc. new this yr. 281-8952 after 1700.

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

25' OWENS 1961 - In water, sleeps 5, head, galley, dinette, new 283 V8, navy top, side curtains, depth finder. \$1900. Ext. 7143, 475-6788.

20' BAY CITY CABIN CRUISER - 95 hp inboard f.w.c., plywood hull, sleeps 2, head enclosed, galley, extras. Petruk, Ext. 2142, AT6-0124.

14' KELLER KRAFT RUNABOUT - W/40 hp Johnson outboard, in water, controls, windshield & extras. Jeff, Ext. 2308.

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

15' DORY - Fiberglassed bottom, used 4 yrs as clam boat, good cond. \$80. Glenn, GR5-1997.

16' LYMAN - Windshield, navy top. \$175. Ralph, Ext. 2814.

21' CABIN CRUISER - 60 hp inboard; 2 bunks, ice box, head. Ext. 2528.

16' FIBERGLASS RUNABOUT - 1966 Sportcraft, 1966-40 hp elec start, navy top, side curtains, cover, in water. \$1200. Ext. 7353, 587-9372.

25' OWENS CABIN CRUISER - 185 hp, 30 hrs, sleeps 4, standup head, sink, ice box, s/s bowrail, extras. \$2000. R. Farmer, 281-7720.

Miscellaneous

BUNK BEDS - Unpainted, 1 1/2 yrs old, w/mattress, like new, \$80; chest of drawers, \$8; owner leaving country. 929-8141.

2 BAMBOO ARM CHAIRS - Very good cond, \$14; 2 lamps, \$5; all 1 1/2 yrs old; owner leaving country. 929-8141.

WASHING MACHINE - Good running cond, owner leaving country. \$30. 929-8141.

GIUITAR - Steel string, good cond, case incl. \$17. Robin, 286-1372 after 3.

KAY GUITAR - Steel strings, w/case, like new. \$30. Diana, Ext. 2324.

DRAFTING TABLE - Metal pedestal, 26 1/2"x60" top, tilt & hgt adjustment. \$75; w/chair, \$100. LT9-0820.

ZENITH REMOTE CONTROL TV - Needs tubes, pick it up. Bruce, 286-8238.

STEREO TAPE RECORDER - Voice of Music, 2,4&8 track, make offer. Bruce, 286-8238.

DRAPERIES - 3 pr lined, beige background w/floral pattern, 90" long, good cond. \$22. 475-4394.

MAGNAVOX - Console, dk walnut cabinet, solid state, am/fm stereo (AFC), 4 spd turntable, all in best cond. Foelsche, Ext. 2841, 286-0047.

MUMS - Yellow & blue left. 95¢ ea or 12/\$10. Ext. 7166.

HI-FI CABINET - Solid cherry. \$15. Ext. 7166.

DRESSMAKER'S FORM - Foam rubber w/cover, used once, sm size. \$15. Sylvia, Ext. 2380.

SPORT STAMPS - All countries, excel cond, all new issue, plus Sov. shts. \$150. Dick, Ext. 7343.

STAMPS - US commemorative 5¢ mint stamps, '64-'65, 27 all different for face value. 727-4884 eves.

OAK FIREWOOD - Seasoned, guaranteed to burn, split or logs, delivered or pickup, reasonable. 732-9517.

SNOW BLOWER - Sears model, 1 yr old. Orig \$170, will sell for \$25. Ray, Ext. 2569.

SKIS - 210 cm metal, w/Solaman step-in bindings, \$55; boots, lace, Austrian made, size 10 1/2, \$10. Pete, 744-3807.

SURF CASTING ROD & REEL - Rod cost \$65, reel is French import, Luxor make, over \$100, box of tackle. \$65 everything, Luccioni, Ext. 2950, 732-3762.

BOY'S PEA COAT - Mighty Mac size 10; rain or shine zip-in coat; sports coat & pants. \$18 takes all. AT6-8814 after 5.

DBL BED - Box spring & mattress, 60" wide, good cond, incl bookcase headboard. \$40. M. Goldberg, Ext. 7674.

BABY CARRIAGE - Bilt Rite, blue, converts to car bed, new cond. \$30. AT6-8945.

30" FRIGIDAIRE ELEC RANGE - \$25; rock maple bunk beds, compl, \$50; chest of drawers, \$10; child's desk & chair, \$10. 725-2623.

SPORT STAMPS - 77 sets, 32 Sov shts, all new issue, excel cond, all mint. Asking \$150. Dick, Ext. 7343.

CHAPMAN MIDGET RATCHET - Brand new, offset compl set w/15 interchangeable adaptors. Cost \$7, will sell for \$4.50. Howard, Ext. 2320.

SKIIS - Van Hill, red, good cond, excel for beginner, 5'5". L. Christoffersen, 286-8927 after 6.

GE STEAM IRON - New cord, \$7; Sunbeam elec frying pan, teflon coated, \$7; night stand, 4 drawers; chest of drawers. Earl. 286-3829.

COLEMAN OIL HEATER - 28,000 BTU, kerosene or lt fuel oil, 7500 K cal/hr. \$20. B. Noe, 878-0979.

GOLF CLUBS - 3 woods, 7 irons, also bag & cart. \$70. 475-4028 after 6.

UPRIGHT PIANO - AT6-8718 after 6.

BALDWIN ACROSONIC PIANO - W/matching bench, rock maple, colonial styling, 16 mos old, excel cond, sacrifice. \$675. AT6-3317.

BIBLE - King James version, gilt-edged, illustrated by Michelangelo, brand new. \$15. Ext. 2198.

KITTENS - 6 wks old, 3 all blk, 2 gray, yours for the asking. Ext. 346, 751-1149.

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.

SEARS MONAURAL TAPE RECORDER - Hardly used, excel cond, like new. G. Leil. Ext. 7143, 289-1119 eves.

DEEP WELL JET PUMP - 3/4 hp, 2 stage, w/pressure switch, valves, air volume control & 40-gal tank, compl. \$65. Porcaro, 732-8818.

COMMERCIAL BRUNSWICK BILLIARD TABLE - Special cloth, balls, extra sticks, stick rack. 289-4716.

CAMERA LENS - 300 mm f5.6 Rokonar auto lens for Nikon reflex cameras, new cond. \$80. Ext. 7585.

SHOTGUN - 12 gauge high standard deluxe Flite King, 5 shot slide action, raised matted rib, variable choke, 1 yr old. \$100. Ext. 7585.

2 PC SCHOOL DESK - Flip top, adjustable, best offer. B. Hershey, Ext. 7167.

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

14' SNAKE WHIP - Excel cond, show her who's boss. \$20. Fales, Ext. 2461.

TRUMPET - Stradivarius model made by V. Bach Corp., case & music stand incl. \$145. AT6-8544 after 6.

FURNITURE - Bedrm set, china closet, secretary desk, platform rocker, sm couch & matching chairs, etc; some antiques; all good cond, must be seen. EM3-6428/GR5-0363.

STOVE - Kerosene, table top, built-in insulated oven. GR5-7372.

HUMAN HAIR FALL - From Paris, never worn, med brown, \$25; white china, service for 6, \$20; ladies golf clubs & bag; misc. 878-2284.

COMMERCIAL SEWING MACHINE - Good cond. \$100. 281-5328.

PHOTO ENLARGER 35MM - Durst model 300, excel cond. \$50. L. Cohen, Ext. 454.

FOR \$4 - Group subscription to Consumer Reports, submit check payable to CR to Laurel Zolot, Medical Bldg. 9-409, subscription will begin 1/70, Buying Guide incl. Ext. 7148.

WALL OVEN - Coppertone, yellow formica counter-top, new. Ext. 2816, GR5-7372.

MAPLE COFFEE TABLE - 36" round, incl glass top, like new. \$40. Ext. 2816, GR5-7372.

GAS DRYER - Old but in good cond, recently repaired, you haul. \$25. Mrs. Elkind, 286-0783.

VENETIAN BLINDS - Good cond, 1-10', 3-35", 8-31", 2-26", 2-23". Mike, Ext. 2314.

ELEC BASS GUITAR - W/case, violin-shaped body, dbl pickup, excel cond, 2 yrs old. \$60. 285-0906 eves.

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

CORNET - Olds ambassador, w/case & mouthpiece, perf, like new cond. \$90. Bill, Ext. 2393.

MOTOROLA TV - Working cond. Sambles, Ext. 7724, 7341.

XL MEDIUM LENGTH WET SUIT - Used twice. List price \$48, sale at \$25. 281-8952 after 5.

1 BLOCK & FALL - 3/4" manila rope, 160', \$20; 1 block & fall 3/4 manila rope, 70', \$8; 1 sidewalk hedger, motor driven, \$30. Ext. 2965, 475-1940.

SKILLED HEDGE ELEC CLIPPER - 100' cord, \$25; 1 artist's easel, \$5. GR5-9131.

16 MM CAMERA - Paillard Bolex, same kind used professionally by BNL, very good cond. \$75. Bill, Ext. 2393.

DBL DRESSER - \$125; men's chest, \$75; mirror, \$35; French provincial, custom made, solid walnut. 744-6433.

FIREPLACE SCREEN - Brass, fan shaped, highly decorative, \$30; Spanish iron lamps, \$10/pr. 744-6433.

11' GARCIA ROD - W/Mitchell (302) reel. \$35. Nicoletti, Ext. 560.

YARD SALE - Oct 11-12, 10-5, antiques, elderly things, collector's items, misc junk; 58 E 7th St, Patchogue. GR5-4992 after 6.

TENT CAMPER - Apache Eagle, sleep 4, alum cover, canopy, extras, excel cond. \$500. B. Johnson, Ext. 573.

CLARINET - Bb, good cond, \$50; Polaroid #150, all attachments, hardly used, \$40; Garrard Lab 80 turntable & cartridge, \$55. Ext. 2969.

35 MM F-2 KONICA - W/case, 853 Weston meter, flash attachment, lens shade, filters, film, bulbs, carrying case. \$50. Ext. 2528.

GAS FURNACE - "Through-the-wall-vent," Sears, nearly new, easy to install, 70,000 BTU, auto thermostat, blower, humidifier natural or bottled gas. Was \$200, now \$95. Van, Ext. 2924; Sue, Ext. 7440.

CERAMIC TILE REPAIR - AT6-9304.

1 WHEEL UTILITY TRAILER - \$45. AT6-9304.

56" TRIPLE DRESSER - Lg matching mirror, colonial style, very good cond. \$75. Winsche, AT6-0517.

4 LG PINE BOARD BOOKCASES - Varnished, home-made, good for storage, you pick up. All for \$5. Cutler, Ext. 2196, 929-6104.

2 LANGUAGE RECORD COURSES - Unused, "Instant French," "Instant Russian." \$3/ea. Cutler, Ext. 2196, 929-6104.

7 RUSSIAN GRAMMAR BKS - 6 scientific bks in Russian, 5 Russian dictionaries. Best offer for all or part. Cutler, Ext. 2196, 929-6104.

SECTIONAL - Colonial, apt size; maple corner table. Ext. 2816, GR5-7372.

STOVE & REFRIG - In excel working cond. \$25 ea or \$40/both. R. Ackerhalt, Ext. 2781.

BASEMENT SALE - Oct 11-12, furn, lamps, bric-a-brac, misc, must sell, bargains; 38 Mowbray St, Patchogue. AT9-1277 after 6.

GAS OVEN & RANGE - 4 burner, 36", hood w/fan & light, excel cond, remodeling. \$40. Jerry, 281-3170.

YARD SALE - Oct 10-11, 11-5, cameras, auto supplies, electronic, plumbing & photographic equip, misc; 113 Bonnie Rd, Oakdale. L. Bartos, LT9-0499.

FALL & WIGLET - 1 yr old, good cond, blonde. \$70/bohr, pd \$125 when new. Bonnie, Ext. 2745.

12 GAUGE PUMP SHOTGUN - High standard deluxe variable choke, raised matted rib, new cond, 1 yr old. \$100. Ext. 7585.

4 ADORABLE KITTENS - Red & white, 2 females, 2 males. B. Squediri, Ext. 7247, 924-3634.

1-9 SURFBOARD - Needs sm repairs, reasonable; 1 pr 5' water skis, 1-salom ski. J. Mann, Ext. 2221.

BROWNIE UNIFORM - Size 6, perma-press, w/accessories - hat, socks, belt, tie & manual. \$6. Steve, Ext. 2801.

ROCKING HORSE - Very good cond, \$10; bathroom sink, 17"x19" wall mount, white, brand new, \$10; dbl bed frame, mahog, \$7. R. Dietz, Ext. 623.

67 COX TRAILER - Sleeps 6, dinette, ice box, spare tire. \$550. PA7-6258 after 6.

MUSICAL WIND-UP BABY SWING - \$8; artificial green Xmas tree, \$2; baby walker, \$2; training chair, \$2. 289-1754.

GE 19" TV - Interconvertible console or table model, old but works fine. \$30. Chandra, Ext. 2913, 397 after work.

RIFLE - Model 94 Winchester 30-30, excel cond, w/case sling swivels & box of ammo. \$60. Ext. 560.

CAMERA - Mamiya Press Deluxe, compl w/90 mm f3.5 lens, lens hood, Graplok back, roll film back & carrying case. \$175. I. Meyer, Ext. 463.

PLASTIC COVERED TOY BOX - Filled w/used toys & sm piano, ideal for BNL visitor. \$10. C. Ferraro, JU8-9383.

2 SCHWINN BICYCLES - Boy & girl, 26", excel cond. \$25 ea. Mike, Ext. 7423.

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

LOTS IN MASTIC BEACH - 150x217, near schools & stores. 281-7595.

N. PATCHOGUE - 2 bedrm ranch, basement, 1/4 acre, garage, gas heat, city water, conventional mort, close to stores, church, schools, no brokers. \$13,500. AT9-1526.

1 OR 2 FAM HOME - 9 rms, 2 baths, full basement, alum s/s, steam heat, city water, kitchen, din rm & den recently remodeled, early Am, all appliances, 60x100 land. Luccioni, Ext. 2950, 732-3762.

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

HOLBROOK AREA - 4 bedrms, 1 1/2 baths, s/s, patio, carpeting, 5 appliances, 1/2 acre, 3 yrs old, 24x44 unfinished upstairs. Asking \$24,000. Ext. 486, 585-4038 after 5.

MASTIC - 6 rm house, h/w heat, anchor fence around property 80x100, income \$1500/yr. \$9500. 732-4147 after 6.

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.

MEDFORD-YAPHANK - Lovely 3 bedrm house on landscaped acre, new kitchen, din & liv rm have h/w heat, detached 2-car garage, taxes \$600. \$35,000. YA4-3519.

WOODEN STORM WINDOWS - Approximate size wanted 32"x52". B. Anderson, Ext. 2411, 727-4228.

TYPING - Term papers, etc., to do at home. Claire, Ext. 2131.

HOMES - For 3 female puppie, 6 wks old, 1/2 English setter, other 1/2 a step brother (mutt). S. Tirpak, Ext. 2411.

KITCHEN STOOL - For peeling potatoes at the sink. Van, Ext. 2924.

USED CHAMPAGNE BOTTLES - We're making our own. Van, Ext. 2924.

FIREPLACE TOOLS - Tongs, brush, stand, etc. Van, Ext. 2924.

BABYSITTING - My home, have 3 yr old of my own, 5 min from Lab. Agnes, Ext. 7136.

SET OF WARN HUBS FOR JEEP - George, Ext. 7144.

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

GOOD USED FOLK GUITAR - For beginner, nylon strings. AT6-1091.

TO BUY - Small pumpkins, grapefruit size. B. Lockey, Ext. 7550, 2416.

RIMS - 14" 4 lug to fit Chevy II, w/wo tires. George, Ext. 2713.

STAMPS FROM ANY COUNTRY - To augment my collection. Norm, Ext. 7709.

WITCHES - Who need a black cat for Halloween, we have 4-6 wks to 3 mos. Ext. 346, 751-1149.

EMPLOYEES - Interested in .22 caliber indoor target shooting with Rifle Team in L.I. Industrial League. R. Domish, Ext. 2404.

GOOD HOME - For adorable blk kitten w/white paws. Jim, Ext. 668, 751-0023.

A. U. I. RETIREMENT PLAN

ABOUT THE PLAN BENEFIT ILLUSTRATIONS

BACKGROUND. The AUI Retirement Plan is carried with Teachers Insurance and Annuity Association (TIAA) and College Retirement Equities Fund (CREF). TIAA was established in 1918 and chartered in the State of New York as a nonprofit life insurance and annuity company to provide insurance and retirement annuities for employees of educational and other nonprofit institutions.

CREF, which is a companion to TIAA, is a separate, nonprofit corporation established in 1952 to provide retirement benefits based on common stock investments. Today, over 250,000 persons, employed by more than 2,000 different institutions, participate in the TIAA-CREF Retirement Program.

Associated Universities, Incorporated adopted the TIAA Retirement Program for its employees in 1948. Four years later CREF was established and made available to all employees holding TIAA contracts.

PARTICIPATION. You begin to participate in the plan after three months of full time employment and attainment of age 30.

CONTRIBUTIONS. Your contributions and those made by the Laboratory are determined as a percentage of salary, and are sent to TIAA-CREF each month to be applied to your individually owned annuity contracts.

SALARY	YOU CONTRIBUTE	LABORATORY CONTRIBUTIONS	TOTAL CONTRIBUTIONS
On first \$7000 of salary	2 1/2%	10%	12 1/2%
Thereafter over \$7000	7 1/2%	10%	17 1/2%

IMMEDIATE FULL VESTING OF BENEFITS. You own all retirement benefits as you earn them. If you leave Brookhaven before retirement, you take your annuity with you, including all benefits purchased by Laboratory contributions. If you join another of the 2,000 institutions having TIAA-CREF retirement plans, contributions to your annuities will be made under the rates established by that institution. Otherwise, you may make payments to the annuities on your own, or you may leave them on the paid-up basis until you decide to begin receiving your annuity income. In order to keep the benefits intact for their intended purpose - a lifetime income - the annuities do not provide for loans or cash surrender (but see REPURCHASE, next).

REPURCHASE. Employees who terminate within five years from the date their TIAA-CREF annuities are issued may have their contracts repurchased if they are not transferring to another institution having a TIAA-CREF plan. Upon repurchase, TIAA-CREF pays to the employee a single amount equal to the portion of the accumulation arising from his own contributions, and the Laboratory recovers its proportion of the accumulation.

CREF PARTICIPATION. You may elect to have the total contributions applied to your TIAA annuity, or to have from 25% to 75% of the total contributions paid to CREF, which provides a variable annuity based

on common stock investments. During retirement the dollar amount of the CREF annuity income changes from year to year to reflect the market value and dividend income of the Fund's investments. The accompanying TIAA annuity provides a fixed income, except as increased by dividends.

The purpose of the balanced TIAA-CREF system is to provide a retirement income that can be more responsive to changes in the cost of living than a fixed-dollar annuity alone and less volatile than a common stock annuity alone.

DEATH BENEFIT PRIOR TO RETIREMENT. If you die before retirement, the full TIAA-CREF accumulation, including all Laboratory contributions and all investment earnings, is payable to your beneficiary. Your beneficiary may take either a lump sum settlement or elect any of several income options available from TIAA-CREF.

ANNUITY STARTING DATE. The normal retirement age at the Laboratory is 65. However, you may begin drawing your TIAA-CREF annuity income at any age if you leave the Laboratory before age 65.

DEATH BENEFIT AFTER RETIREMENT. Upon the death of an annuitant after he retires, the amount continued to his beneficiary depends on the income option chosen at the time he retired. All of the retirement income options but one, the Single Life Annuity, provide for continuation of an income to a beneficiary.

OPTIONS ON RETIREMENT. Just prior to your retirement date you will be asked to select one of the following seven annuity income options:

1. Single Life Annuity: Pays you (only) an income as long as you live. It provides a larger monthly income than the other options, since all payments cease with your death.
2. Ten Years Certain and Life: Pays a specified income as long as you live, with payments guaranteed to continue for the first ten years whether you live or die.
3. Twenty Years Certain and Life: Same as the preceding except that payments are guaranteed for twenty years instead of ten.
4. Full Benefit to Survivor: Pays you a lifetime income. However, if your wife lives longer than you, she continues to receive the same income for the rest of her life.
5. Half Benefit to Second Annuitant: A specified income continues as long as you live. If your wife survives you she receives one-half of this income for life.
6. Two-thirds Benefit to Survivor with Ten Year Guarantee: Pays a specified income so long as both husband and wife live. Upon the death of either spouse the payments are reduced by one-third and continue to the survivor for life.

NOTE: ON OPTIONS 4, 5, AND 6, PAYMENTS ARE GUARANTEED FOR TEN YEARS, EVEN IF BOTH HUSBAND AND WIFE DIE.

7. Installment Refund: Available in TIAA but not in CREF, this option pays you an income as long as you live. If you die before receiving total payments equal to the full accumulation you had before payments began, the income continues to your beneficiary until the sum of all payments equals that amount.

BASIS FOR ILLUSTRATION. The benefit illustrations in Tables I and II are based on the assumption that participation in the retirement plan starts at four different ages and retirement takes place at age 65. The following hypothetical salary progressions were used: Salary Scale A, \$6,000 to \$12,000; Salary Scale B, \$9,000 to \$18,000; and Salary Scale C, \$12,000 to \$30,000. These scales assume that the average salaries shown increase at the compound rate of about 2% to 2 1/2% per year. In reality, many salaries of twenty year Laboratory employees have increased by a multiple of these factors.

ATTAINED AGE	SALARY SCALE A AVERAGE SALARY	SALARY SCALE B AVERAGE SALARY	SALARY SCALE C AVERAGE SALARY
30-34	\$ 6,250	\$ 9,400	\$12,700
35-39	7,000	10,400	14,550
40-44	7,850	11,450	16,700
45-49	8,400	12,650	19,100
50-54	9,300	14,000	21,800
55-59	10,250	15,400	25,000
60-64	11,500	17,000	28,600

Table I shows illustrative retirement incomes for a person entering the Laboratory plan at the ages shown and retiring at age 65. The assumptions used are shown at the bottom of the table.

TABLE I

IF ENTRY AGE IS	YEARLY SINGLE LIFE INCOME AT AGE 65 (MALE)				% FINAL AVERAGE SALARY
	YEARLY TIAA INCOME	SOCIAL SECURITY PRIMARY AMOUNT	TOTAL INCOME		
SALARY SCALE A (\$6,000 TO \$12,000)					
30	\$8,541	\$2,000	\$10,541	90	
35	6,942	2,000	8,942	75	
40	5,354	2,000	7,354	63	
50	2,877	2,000	4,877	42	

SALARY SCALE B (\$9,000 TO \$18,000)					
30	\$14,067	\$2,000	\$16,067	91	
35	11,348	2,000	13,348	76	
40	8,898	2,000	10,898	62	
50	4,725	2,000	6,725	38	

SALARY SCALE C (\$12,000 TO \$30,000)					
30	\$22,485	\$2,000	\$24,485	81	
35	18,507	2,000	20,507	68	
40	14,797	2,000	16,797	56	
50	8,159	2,000	10,159	34	

ASSUMPTIONS:

1. That all contributions are made to TIAA rather than to TIAA and CREF. In effect, this assumes that CREF experience will parallel that of TIAA.
 2. TIAA rate basis: current Minimum Rates plus dividends on the 1969 TIAA dividend scale (total 4 1/2%). TIAA dividends may be increased or decreased in the future and are therefore not guaranteed.
 3. Single life benefits are shown for TIAA. If, for example, the Joint and 1/2 to Survivor option were chosen by a man and wife both aged 65, the TIAA incomes would be about 12% less than those shown.
 4. The Social Security benefit for the employee only is shown. If he has a dependent wife who is also age 65, there would be an additional Social Security benefit of approximately \$1,000 or a total of \$3,000.
- Other illustrative figures based on different salary and age assumptions may be calculated from the table at the back of the booklet "For your future security" - Associated Universities, Inc., Retirement Income Plan...
- Table II shows illustrative death benefits for a person entering the Laboratory plan at age 30. The assumptions used for Table I have also been used for this table.

TABLE II

IF DEATH OCCURS AT END OF	DEATH BENEFIT PRIOR TO RETIREMENT FOR EMPLOYEE ENTERING PLAN AT AGE 30		
	DEATH BENEFIT (SALARY SCALE A)	DEATH BENEFIT (SALARY SCALE B)	DEATH BENEFIT (SALARY SCALE C)
10 years	\$10,027	\$ 16,261	\$ 24,160
20 years	28,324	46,737	71,645
30 years	61,125	100,829	159,246
35 years	85,274	141,167	223,634

YEARS TO RECOVER THE ACCUMULATION: TIAA uses annuitant mortality tables as the principal basis for determining the amount of retirement income you will receive each year. These tables are based on experience showing that the average life expectancy of a male who reaches age 65 is slightly over 16 years. For a woman who reaches 65 it is approximately 21 years. This is the length of time TIAA expects to pay an income to each retiring individual. Of course, should you live longer you go right on receiving your annuity income because payments are guaranteed for life.

Simple arithmetic shows, however, that under the Single Life Annuity, the original accumulation is paid back in about 10 years. For example: the employee in Salary Scale A winds up with an accumulation (Death Benefit, Table II) of \$85,714 after 35 years participation. His Single Life Annuity income (age 30, Table I) is \$8,541 per year or about 1/3 of the accumulation.

The employee's share of the original accumulation is recovered in less than 5 years - At current contribution rates, an employee's contributions can account for a maximum of 43% of the total accumulation at 65. Thus the employee is assured of receiving his portion of the accumulation in the first 4.3 years of retirement or, before reaching age 70.