

the Bulletin Board

VOLUME 13 - NUMBER 33

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APRIL 20, 1960

PRESIDENT OF ARGENTINE AEC TO VISIT BNL, APRIL 21

On Thursday, April 21, the Laboratory will receive a visit from Admiral Helio Lopez, President of the Argentine National Atomic Energy Commission. Admiral Lopez will be accompanied by Dr. German Mendivilzua, a member of the Board of Directors of the Argentine AEC, and also by a State Department escort-interpreter. This visit has been arranged under a Leader Grant Program developed by the U.S. Department of State and the USAEC, whereby key officials of Latin American atomic energy organizations are being invited by Chairman McCone to visit Commission installations to discuss matters of interest in the development of the peaceful applications of atomic energy.

At Brookhaven, the visitors will meet with Dr. Haworth and scientists representing the Laboratory's various research projects, and will tour the major research facilities.

DU BRIDGE TALKS AT BNL PUBLISHED

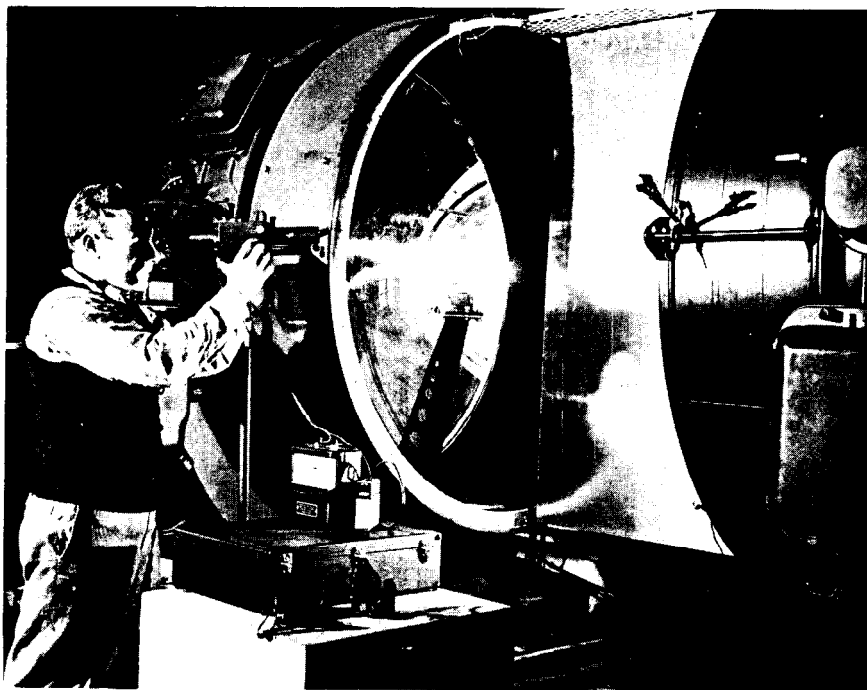
The first George B. Pegram Lectures, delivered by Dr. Lee A. DuBridge, President of the California Institute of Technology, at BNL in September, 1959, have been published by the Columbia University Press under the title, "Introduction to Space". The four lectures given by Dr. DuBridge specifically dealt with "Attaining a Space Orbit", "The Space Laboratory", "The Solar System", and "The Universe".

The annual Pegram Lectures were established by A.U.I. to honor an individual for his accomplishments and to provide a forum for him to discuss the broad implications of science in the areas of his experience and interest. The lectures were established in the name of the late Dean George B. Pegram of Columbia University, the eminent nuclear physicist who played a key role in the foundation of BNL.

The ninety-three page volume contains 24 photographs and diagrams. It may be purchased for \$2.50.

Attempts are being made to enable employees to order this book through Personnel Services. Details will be announced in THE BULLETIN BOARD if and when arrangements are completed.

BARGAIN HUNTERS



Measuring temperature at the source of the Arc Image Furnace.

As part of the Nuclear Engineering Department's newly established program to study the physical properties of reactor materials at high temperatures, a furnace generating temperatures above 3700 degrees Fahrenheit was required. Usually an instrument of this type costs in the neighborhood of ten to fifteen thousand dollars. Ingenuity, however, provided this equipment at a cost of only two hundred and forty dollars.

Two United States Army searchlights, together with a portable generator, were obtained from surplus at no cost other than shipping expenses. The searchlights, which were set up in Building 197, were then modified to form an arc image furnace. The high temperature carbon arc from one light is reflected by the light's 60 inch parabolic mirror, and is then focused by the mirror of the second light onto a focal point, where temperatures approaching 5400 degrees Fahrenheit have been obtained.

Measurements as to expansion, density, melting point, etc., are made by means of "pure heat", that is, all the thermal energy is transferred by radiation alone. There is no contact between the material being heated and any foreign matter which could contaminate the specimen and thus affect its properties.

Through this program it is hoped to obtain information about the physical and chemical behavior of various metals used in the construction of nuclear reactors at very high temperatures (above 3700 degrees Fahrenheit). While this data is of utmost interest to reactor designers, until recently there has been a dearth of information because of the difficulty encountered in experimentation at temperatures above 3700 degrees F. It is hoped some of the answers will be provided through the use of this arc image furnace.

\$ MONEY IN THE BANK \$

At this time every year, each participant in the A.U.I. Retirement Plan receives a Report of Premiums and Benefits from Teachers Insurance and Annuity Association (TIAA), the company which administers our plan.

The report (a blue slip) shows the status of your accumulation in TIAA

only. If you have elected to participate in the College Retirement Equities Fund (CREF), the variable annuity, you will receive from them at a later date another report showing your accumulation in that plan.

Because we feel that the TIAA report is very important to everyone, we have

reproduced below a report similar to the one received by each participant. The actual figures in the illustration represent the status of an average employee who began participation in the plan at its inception in 1948 and also elected to participate in CREF starting in 1952, after which time 50% of total contributions was placed in each fund.

TEACHERS INSURANCE AND ANNUITY ASSOCIATION OF AMERICA
730 THIRD AVENUE NEW YORK 17, NEW YORK

REPORT OF PREMIUMS AND BENEFITS UNDER YOUR TIAA ANNUITY CONTRACT FOR CALENDAR YEAR ENDING DECEMBER 31, 1959

1 YOUR CONTRACT NO.	2 THE SUM OF ALL PREMIUMS PAID IN 1959, ADJUSTED FOR ANY PREMIUMS PAID IN ADVANCE, WAS	3 THE AGE YOUR AN- NUITY IS NOW SCHED- ULED TO BEGIN IS Years Months	4 THE TOTAL ANNUAL SINGLE LIFE ANNUITY ALREADY PURCHASED AT END OF 1959 WAS	5 THE VALUE OF THE DEATH BENEFIT (AVAILABLE IN INSTALMENTS) AT END OF 1959 WAS
A 58998	\$ 391.91	65	\$ 415.78	\$ 4213.78

ANNUITY CONTRACTS DO NOT PROVIDE FOR CASH SURRENDER OR LOANS.
THE ACCOMPANYING LEAFLET SHOWS YOU HOW TO ESTIMATE THE TOTAL ANNUITY INCOME YOU WILL EVENTUALLY RECEIVE.
PREMIUMS AND BENEFITS UNDER YOUR CREF CERTIFICATE, IF ANY, ARE REPORTED TO YOU SEPARATELY.

AVERAGE EMPLOYEE
BROOKHAVEN NATIONAL LABORATORY
UPTON, N. Y.

William L. Greenough
PRESIDENT

F-727 - 11-59 (A31,625-)

Please Read Explanation On Reverse Side

The report has five numbered columns.

Item No. 1: Contract No. A-58998:

Each employee participating in the plan has received a TIAA contract. The number shown in this column on your report should correspond with the number on your contract.

Item No. 2: The Sum of All Premiums Paid in 1959: During the calendar year 1959 this employee contributed \$151.50 into the TIAA fund, and the Laboratory contributed \$240.41, or a total sum of \$391.91, as shown in that column.

Item No. 3: The Age Your Annuity is Scheduled to Begin: Normal retirement age at the Laboratory for all employees is sixty-five (65), as shown in this column.

Item No. 4: The Annual Single Life Annuity Already Purchased at the End of 1959: This is the amount (\$415.78) the employee would receive annually as a single life annuity, beginning at age sixty-five, if he were to leave the Laboratory as of December 31, 1959. Of course, all premiums paid into the TIAA fund from December 31, 1959

until age sixty-five will increase the amount shown.

Item No. 5: The Value of the Death Benefit at the End of 1959: The amount in this column (\$4213.78) is actually the total accumulation in the TIAA fund since the employee started participation in 1948 through December 31, 1959. In the illustration, during that period:

The Employee Contributed	\$ 1257.17
The Laboratory Contributed	\$ 2427.92
Interest and Dividends	\$ 528.69
Total Accumulation	\$ 4213.78

The amount shown in column No. 5 is stated as the Death Benefit, because if an employee dies before retirement, this accumulation is like a paid-up life insurance policy, and the beneficiary receives not only the amount the employee has contributed, but also the Laboratory's entire contribution, plus interest and dividends.

In reviewing your own report, remember that the figures shown represent the status of your accumulation in TIAA only. When all participants have received reports, a representative of the Personnel

Office will visit your group to review your report with you and answer any questions you may have about the plan.

RETIREMENT PLAN FACTS

1. The plan is fully vested. This means that you own your annuities completely. The annuities bought for your retirement by you and by the Laboratory remain yours regardless of your future employment status.

2. You have the option of putting part of your money – and the Laboratory's – in CREF, to provide reasonably stable buying power of the dollars you will receive when you retire.

3. The death benefit provided in the plan is the full current value of your annuity money, plus all interest and dividends, paid to your beneficiary as a regular, guaranteed income.

4. The plan gives you a wide range of flexibility – in methods of receiving payments when you retire, in dividing your contribution between TIAA and CREF, and in making extra payments.

FIFTH CONCERT: APRIL 26:

PAUL DOKTOR, Viola
RAFAEL PUYANA, Harpsichord

Program:

For viola and harpsichord: Andante in D major, Guiseppe Tartini; Sonata No. 2 in D, J.S. Bach; Variations on "La Folia", Marin Marais; and Five Old French Dances, Marin Marais.

For harpsichord: Partite sopra l'aria di Ruggiero, Girolamo Frescobaldi; Les Buffons, John Bull; Five 18th century Spanish Sonatas (Three Sonatas in A minor, F major and D major), Domenico Scarlatti; Sonata in A major, Freixanet; and Sonata in D major, Mateo Albeniz.

For viola: Adagio, Josef Hoesl.

Thus it is seen that with one exception our last concert of this season comes to us directly from the 17th and 18th centuries. The exception is the Adagio by Hoesl for unaccompanied viola which is modern and is dedicated to Paul Doktor. Several composers have dedicated works to Doktor for reasons that are obvious to past Brookhaven audiences who have heard him. When a great violist comes along, composers are inspired.

Mr. Puyana has also earned quite a reputation as a soloist. To quote briefly from the Washington critic, Paul Hume: "Last night Rafael Puyana played a polished recital filled with a steady exhibition of the most engaging music, some of it great, all of it a delight to the ear. And the playing matched the level of the music." Doktor and Puyana have been playing duos together for several seasons. They have recorded the Bach Sonata and the Five French Dances by Marais.

The concert will be given Tuesday, April 26, at 8:30 p.m. in the Research Staff Lounge. Admission is \$2.00 for adults and \$0.75 for children. All laboratory employees and their friends are invited.

UMPIRES WANTED

The softball season is about to begin and once again the call is out for help with the umpiring duties. This year the leagues have voted to hire 2 umpires for each game and to pay each two dollars. Here's your chance to pick up that extra few dollars you're always missing plus some exercise and sunshine. Don't hesitate! Call G. Sabine, Ext. 391.

BNL SAFETY RECORD

10 Days Since Last Disabling Injury
(April 8, 1960 - April 17, 1960)

ATTENTION FISHERMEN

Get out the rods and reel in the fish. Starting May 1, any fish of the following species may get you an award in the 1960 BERA FISHING CONTEST.

The success of this contest depends on competition, so enter all you catch.

An award will be given for the heaviest fish caught in each of the eligible species, and points will be given for the 1st, 2nd, and 3rd place fish in each specie in order to determine the FISHERMAN OF THE YEAR.

BERA FISHING CONTEST RULES

1. Only fish of the following species are eligible for entry:

Bass, striped	Bluefish	Fluke	Porgy	Trout, brook
Bass, sea	Cod	Kingfish	Tuna	Trout, brown
Blackfish	Flounder	Mackerel	Weakfish	Bass, large mouth
2. All Laboratory employees are eligible for awards.
3. Contest period is May 1, 1960 to October 31, 1960.
4. All entries must be caught by rod and reel, in Long Island waters.
5. Each entry must be weighed on a commercial calibrated scale, in ounces. (Available at any grocery or meat market.)
6. Duplicate awards may be issued in case of ties.
7. All decisions concerning entries and awards will be at the discretion of the committee.
8. The heaviest fish to date in each species, will be listed in the BULLETIN BOARD.
9. A photo of each entry is desirable, but not necessary.
10. Entry blanks are available at the Recreation Office, or from members of the Contest Committee. However, any reasonable facsimile may be used.
11. Submit entries to Recreation Office.
12. A means for weighing in fish at BNL will be available at the Recreation Office. Contact a member of the Contest Committee for information.
13. The decisions of the Committee will be final.
14. Entries must be submitted no later than one week after catch has been made.

The members of the Contest Committee for 1960 are:

D.A. RAVENHALL	Ext. 415	LES LAWRENCE	Ext. 372
L.K. POTTER	Ext. 372 or 2398	R.C. ROTH	Ext. 2164
FRANK W. WALSH	Ext. 2184	K. JELLET	Ext. 2188
G. SABINE		Ext. 391	

BERA FISHING CONTEST**ENTRY BLANK**

1. Species.....
2. Weight.....lbs.....oz.
3. Where caught.....
4. Date caught.....
5. Method used.....
(surf casting, trolling, bottom fishing, etc.)
6. Type bait or lure.....
7. Location of scale used to weigh fish.....
8. Name..... Department.....
9. I hereby certify that the above mentioned fish was caught by me in a sportsman-like manner and that the scale used for weighing this fish is accurate to the best of my knowledge.

.....
 Signature of Employee

.....
 Date of Entry

CUT OUT AND SAVE THIS VALUABLE COUPON

THUMPERS WIN

Last Tuesday saw the basketball season finally come to a close as Metallurgy and the Thumpers, each with a decisive win under their belts, faced off before a sparse crowd of diehard fans. The first stanza see-sawed back and forth slowly and ended 8-8. In the second quarter, even though the pace doubled, neither team could put together a sustained effort and a long set by Rush gave the T's a 1 point edge 24-23 at the buzzer.

Highlighting the first half were Lanyi's bounding and 10 points, Rush's four long sets and Atherton's tremendous defensive board work.

As has been the story all year, the third period specter was still hovering over the Metalniks. They were ice cold from the floor and hit only 2 of 9 from the free throw line. Couple this with a real hot burst from Red Carsten who threw in five straight baskets, the first three in the first minute of the second half, two long sets from Rush, and a 20 foot jumper by Atherton and you have the story of the whole game. The T's tossed up a scorching 22 points in the third period matched by only 8 from Metallurgy and they enjoyed a 15 point bulge with only 8 minutes to go.

In the fourth quarter Metallurgy pecked away at the score during the first 5 minutes, cutting down the T's lead to 46-43. But the scrambling had cost them dearly as they lost their main-spring, Lanyi, on 5 fouls and their ace back-court duo, Kenny and Brandon, was tiring. Again Atherton and Carsten set off the explosion and between them ran up 14 points in the last minutes of the game. Final score was 60-49.

"Give me 3 men with 15 or more and we'll win them all" again proved true as Atherton, Rush, and Carsten bombed 18, 16, 15 for the winners. Lanyi had 14; Brandon and Frei had 9 each and Al Prodell had 8 for the Metalniks.

TICKETS TO "WEST SIDE STORY"

Exchange tickets to WEST SIDE STORY, at the Winter Garden Theatre in New York City, are available at Personnel Services. The tickets, which represent a considerable discount, must be shown at the box office.

PSSSST!

Bowlers! There's a great time brewing right up your alley. Don't miss the party Saturday, May 21 in the Gym.

LADY KEGLERS COLUMN

With Odds and Ends and Medical splitting 2-2 this week, 1st place for the Odds and Ends is fairly well set. Right now it looks like Medical will have a Struggle on their hands from the Strugglers, who now are only 3 points out of 2nd as a result of their taking 3 points from the Frisbees. (The Strugglers should change their name to Phantoms; they came out of nowhere and now are very strong contenders for 2nd place). Nightingales took 3 from Chemistry and moved into 4th place, while the Allthumbs split 2 and 2 with Sam's Gals, putting the Allthumbs in 5th and Sam's Gals in 6th. Frisbees now hold 7th place, while Chemistry is in 8th. High games for the night: Grace Siemen 201 (new high game for the league), Barbara Garnier 193, and Chris Podlaski 184.

With only three (3) weeks left to go, positions are still uncertain and it certainly looks like a "battle royal" will ensue. The Ladies League will bear watching, there might be some startling results and upsets.

GYMKHANA

Sunday, April 24, the Brookhaven Motor Sports Club will present a day of entertainment for all those interested in automobiles and driving. This precision driving contest will present equal opportunities for all cars and drivers. This is your chance to compare the handling qualities of your car with cars of all variation, on a truly international scale.

Ten awards will be made with an emphasis on fair judging for all types of cars over a carefully laid out course to suit the many variations.

Registration will start at 11 a.m. with an entry fee of \$1 each for all. This event is open to all employees of the Laboratory and their guests, and will be held at the cafeteria parking lot. For any further information call Gene Rogers or Ross Meyer at Ext. 481.

U.R.P. PISTOL SHOOTERS WIN

In spite of bad weather the U.R.P. pistol shooters turned out in force to win their first home match of the season. They defeated the Brookhaven Pistol Club 1417 to 1364. The top guns for BNL were C. Goodzeit 288, M. Johnson 288, P. Colsmann 286, H. Leftwich 278, and J. Kopp 277.

The next pistol match will be a return bout with the Southampton Rifle and Pistol Club on Sunday, May 1, on our own pistol range. Every Tuesday at 5:00 p.m. there is practice shooting for all pistol shooters.

CHESS TOURNAMENT

The Chess Club plans to begin a chess tournament on Tuesday, April 26. If you are interested in taking part in this event, contact E. Degenhardt (Biology, 50 Bell) by mail or call Ext. 2110. Games will start at 7:30 p.m. each Tuesday until the tournament is concluded. A 50¢ registration fee will be charged and should be included with your request to play. Trophies will be awarded the winners by BERA. Since a minimum of 12 players is needed to begin a tournament, we hope that all of the chess players here at BNL will join us for this event.

CLASSIFIED ADS

If your ad was left out for space reasons, it will be included in next week's BULLETIN BOARD.

FOR SALE

LINCOLN - 1953 hardtop, black/yellow. Automatic transmission, power steering, brakes, windows and seat. \$525. Mal Herbert, Ext. 2317.

VOLKSWAGEN - 2 door sedan. 1957. Sun roof. Excellent condition. Driven 34,000 miles. M. Perlman, BAypart 8-2974.

1958 OPAL REKORD - radio, heater, deluxe interior, 2 tone paint. Gets honest 30 m.p.g. Low mileage, an excellent buy. R. Young, Ext. 590.

HOUSE - Shirley. On West side Lexington Ave. at northwest corner of Wm. Floyd School. Walking distance of new R.R. station being put up. 4 rooms and bath downstairs and 2 rm. expansion attic. Oil hot water heat, baseboard radiation throughout, plus bottle gas stove, washing machine and refrigerator. 100 ft. by 100 ft. Corner property all clear. Atlantic 1-6788.

HOUSE - Center Moriches, south of Montauk H'wy. Near water. 2½ bedrooms, living room, separate dining room, kitchen, full basement, steam heat. Stove and refrigerator. D.H. Gurinsky, Ext. 349 or 555 or Atlantic 4-1013.

26 FT. CABIN CRUISER - sleeps 4. Good family boat. Call T. Honnett, Ext. 577.

FIBER GLASS BOAT - M.F.G. Corp. 16 ft. 1957 w/1959 40 h.p. Mercury outboard engine. Remote controls, running lights, rope, anchor and seat cushions. C.G. approved. All this plus a good trailer. Ext. 411, Ed Amos.

BOAT - 20 ft. by 7 ft. Shelter cabin, Model A. Marine Conversion which needs work. Sturdy hull. Mahogany plank and oak ribs. Can be seen at Forge River dock. Slip No. 4, Mastic. Make offer. Atlantic 1-8127.

OUTBOARD MOTOR - 1956. 15 h.p. Evinrude. Electric start. Excellent condition. C. Porter, Ext. 2373.

MARINE ENGINE - 70 h.p. Willys, brand new, completely converted, never used, make offer. Call Port Jefferson 8-1282-J after 7 p.m.