

BULLETIN BOARD

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Brookhaven's Sister Lab Explained By Green Bank Observatory Scientist

Dr. John W. Findlay, Assistant Director of the National Radio Astronomy Observatory at Green Bank, West Virginia, reviewed the progress of BNL's sister Laboratory at a Supervisory Seminar last Friday.

Dr. Findlay, a scientist as well as an administrator, was introduced by Max Small, manager of Plant Engineering and Planning, who had been associated with Findlay in the building of Green Bank's 140-foot radio telescope. Except for one year spent on leave as Director of the Arecibo Ionospheric Observatory in Puerto Rico, Dr. Findlay has been with AUI at Green Bank since 1956.

According to Dr. Findlay, the science of radio astronomy started in 1932 in the Bell Telephone Company Laboratories when Carl Jansky built an antenna to discover



Dr. John W. Findlay, Assistant Director of the National Radio Astronomy Observatory is shown explaining the Very Long Base Line experiment performed early this year.

sources of noise in radio transmission. Jansky noted that the noise that came from space varied throughout the day, and the location of the source of the noise varied slowly throughout the year. He concluded that the noise came from a fixed position with respect to the positions of the fixed stars. This fantastic scientific discovery led to the development of present-day radio astronomy.

Dr. Findlay traced the course of the building of subsequent radio telescopes and interferometers, and showed how the results of observations by these instruments led to many important discoveries. He mentioned the recent Very Long Base Line experiments that involved telescopes in California, Sweden and Green Bank. Dr. Findlay pointed out that these experiments could lead to locating points on the surface of the earth with extreme accuracy.

After a more technical review of other fields of research at the observatory, Dr. Findlay concluded his lecture with an assessment of the future role of Green Bank, pointing out that the effort of the observatory, like the effort of Brookhaven, has been very valuable in the service of radio astronomy and science in general, as well.



Before the start of the Supervisory Seminar in the Lecture Hall last Friday, Dr. Findlay (second from right) is shown with (left to right) Peter Paige, Employment Supervisor; Joseph Washburne, Personnel Manager; and (right) Maxwell Small, Manager of Plant Engineering and Planning. Photos by Humphrey

Theatre Group Notice

The next general business meeting of the theatre group will be held on Monday, July 1, 1968, at 8:30 p.m. in the theatre. At this meeting election of officers for the coming

year and voting for a play for a spring production will take place.

The program will consist of presentations from the plays submitted for consideration in voting for a spring production. All members are encouraged to attend.

Puleston A 20 Year Man



Dennis Puleston (left), Head of BNL's Information Division, was recently feted at a luncheon given in honor of his 20th Anniversary at BNL. He and his wife, Betty (right) are shown admiring the attache case presented to him by Dr. Maurice Goldhaber, Director of BNL, on behalf of his many friends.

Camping Club Meets At Whaling Festival

It was a happening week-end for members of the BNL Family Camping Club. The week-long rumors of cancellations were quelled Thursday at noon and everyone got the go ahead signal.

Approaching the camp area late Friday afternoon hot on the heels of a bulldozer and a grader that were leveling the area, we were greeted by warm rays of sunshine (the first in three days). We had arrived!! Sag Harbor week-end had begun.

Morning greeted the campers with promise of beautiful weather for the day. A rowing crew was scrounged up and found itself on the beach one man short for the start of the whale boat race. One minute before the starting gun sounded, a fourth man ran wildly on to the beach throwing his clothes (shoes and socks) off as he ran. The gun sounded and the campers ran with their whale boat, plunged it into the water and got off to a bounding start, made a valiant effort, speared the whale and returned to the beach, spirits a little dampened but task fulfilled. The remainder of the day was spent viewing the parade, receiving flowers from the local hippies and shopping for souvenirs and antiques. The night skies were lit by a beautiful fireworks display that capped off a wonderful day.

Sunday was spent in the water at the beach and the local pool. The international rowing contest gave everyone a chance to view the experts, and three parachuting sky divers marked the end of Sag Harbor week-end 1968.

Hospitality News

A Hospitality Committee coffee meeting will be held on Monday, June 24, from 10 a.m. until 12 noon at a new location: the Apartment Area Recreation Building. All newcomers and old timers are invited to attend.

Summer Semester '68 Starts at Brookhaven

Monday morning at 8:30 a.m. in the Exhibit Hall on Brookhaven Avenue, the Summer Semester of Brookhaven National Laboratory started. The occasion was the beginning of the Seventeenth Annual Summer Student Program.

From all over the United States, from large universities and from small colleges, the students arrived at BNL to start a summer-long stint as research assistants in the life and physical sciences. From the original 500 who had sent in applications early in January of this year, 115 had been selected to work with members of the scientific staff on current research problems.

On Sunday some of the students were driven to the Lab by their parents and some arrived driving their own cars. Mary Ann Palladino of the Housing Office checked in the early arrivals, and with the help of Steve Kelly, Staff Services, directed them to their residence quarters.

The majority of the summer students arrived on Monday, and were directed to the field headquarters of the Office of Scientific Personnel in the Exhibit Hall. Arden Neber, in charge of the program, supervised the check-in procedure that included filling out forms for Security, Personnel and Communications and Payroll information.

After being given their job assignments, the students were sent to report to their new department and were asked to attend a safety lecture in the early afternoon. For most of the new arrivals, the balance of the day was spent in either getting acquainted on the new job or moving luggage about and unpacking and hanging clothes.

Because of the limited space in the Women's Residence, some of the young ladies are quartered in a wing of one of the residences on Bell Avenue. This year there are 25 women and 90 men participating in the program which is funded by the AEC Division of Nuclear Education and Training. Appointments to the program are on a competitive basis, and are limited to two years for graduate and undergraduate students in science and engineering.

All of the participants in the program are citizens of the United States, 18 years of age or over, and are in the top 20 percent of their class. Preference was given to those students who appeared to have a genuine interest in research and teaching as a career, and whose field of interest coincided with research in progress at the Laboratory.

Last year's summer students were quite active in Laboratory affairs, and distinguished themselves by building and entering a float in the parade celebrating Riverhead's 175th Anniversary.

(see pictures on page 2)

Gymkhana Sunday

BLAST (Brookhaven Lab Auto Sport & Touring Club) is sponsoring a gymkhana to be held June 23, 1968, at the Laboratory. Registration and technical inspection 12:30 p.m.; first car off 1:30 p.m. Metal to metal seat belts, mufflers required. Trophies to be awarded at a later date for Ladies best time of day and one for every four cars in class. Fees: BLAST members \$3.00; others \$4.00. Ladies who use husband/boyfriend's registered car will run free. For further information call Stan Anderson, Ext. 2411 or 581-0950.

"Confusing But Amusing" will be the subject of the next rally to be held on Sunday, June 30th. For further information and pre-registration, call JU1-4784 or JU1-7522.

Watch Out -- They're Here 6-1728-68

Summer Students Arrive at Brookhaven 6-1731-68



Bill Barnes of Security (left) helps summer students check in.



Kathleen Nelson gets down to business in the Medical Dept.

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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

Here and There
 Dolores del Castillo

Edward D. Sperry (Mechanical Engineering) was the inventor of "Beam Port Closure for Nuclear Reactor" for which U.S. Patent No. 3,384,751 was issued on May 21, 1968, and assigned to the AEC.

Dr. Walton Shreeve (Medical) presented a talk entitled "Radioisotopic Studies of Diabetes and Obesity" to the Nassau County Diabetes Lay Society on June 4 at the Nassau Academy of Medicine in Garden City.

James K. Thurber (Applied Math) gave a lecture at the Toronto Meeting of the American Nuclear Society, June 10-14. The lecture was entitled "Unstable Pulsed-Neutron Decay States in Non-Crystalline Moderators."

Arthur Meves (Purchasing) was honored by the American Legion on June 14 when the Amityville Post awarded him a "citation of honor for meritorious accomplishments" and "in recognition as Scouter of the Year for outstanding contributions to Boy Scouts of America and service to the community." He has the distinction of being the only Scouter in Suffolk County to have been so honored.

Members of the Nassau-Suffolk Academy of Dentistry visited the Laboratory yesterday. They toured several of the major research facilities and were given a briefing by Dr. George C. Cotzias on the research program of the Medical Department.

Owen Wheeler, Associate Director of the Puerto Rico Nuclear Center, is presently visiting the Chemistry Department carrying out research in hot atom chemistry.

Raymond Stoenner (Chemistry) has been appointed to serve on the Laboratory Safety Committee.

Robert Thomas (Chemistry) recently presented two invited talks to groups at Argonne National Laboratory on "AESOP - An Automatic Equiinclination Spectrometer Operating in Parallel" being developed at BNL.

Arrivals & Departures

Arrivals	
Robert W. Brown.....	Physics
Agnes H. Donahue.....	Medical
Robert P. Guardiano.....	Accelerator
Harold W. Koenigsberg.....	NED
Thomas J. Reisig.....	Plant E & P
Patricia A. Treadwell.....	NED
Departures	
Rose Ann Cattolico.....	Biology
Dierk Luers.....	Physics
Clifford G. Shull.....	Physics
Kathleen Kozicki.....	Chemistry
Otto C. Pfeil.....	Physics
Leroy P. Christiansen.....	Plant E & P
Edward H. Serine.....	Plant E & P



6-1717-68
 A Yale man, Wilfred Lam will be a BNL man for the summer



6-1726-68
 Jill Nelson (left) will spend her summer in the Biology Dept., and Jane Seck (right) will work in the Chemistry Dept.



6-1718-68
 Bruce Wessels will work in the Physics Department



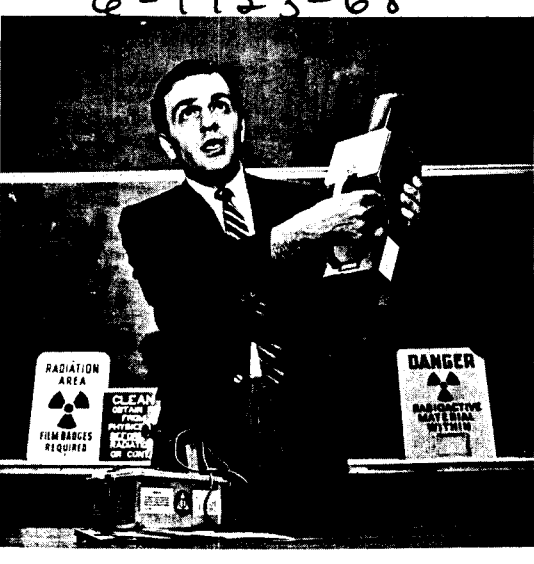
6-1724-68
 George Havach (left) and Kenneth Banks (right) wait for their job assignment



6-1721-68
 Students check in at Women's Residence



6-1734-68
 Ken Levin (right) leads the way to the Men's Residence Hall



6-1723-68
 Toni Nappi gives students a safety lecture



6-1718-68
 Carrie Hunter returns to BNL for a second summer

Dollars and Sense

Leon Meshel

3% Bank Loans Available For College Students

Considering the high cost of money, there are very few bargains left. Interest rates are rising and all the news media are touting the coming of a credit crunch. What all this means to us is that if you are planning to borrow money from a bank in the near future, you may find that they have none to lend, or if there is money available, the interest rates will be very high.

The one shining light through this green gloom is the student loan program. This bargain is administered by the New York Higher Education Assistance Corporation (NYHEAC) and is available through your local savings and commercial banks. Many of you who have applied for these loans in the past have been refused or discouraged. As a matter of fact, there is a bill before the New York State Legislature to preclude banks from discriminating against student loan applications to customers who are not considered by the bank to be preferred customers.

This bill notwithstanding, the Laboratory has been assured by the Peoples National Bank that our employees are preferred and will be given every courtesy and consideration in the processing of a student loan application. The loan applications are available at the on-site branch of the Peoples National Bank together with the student loan brochures. Any questions regarding the application form, i.e., your eligibility, how much you may borrow, how long a period, what documentary proof is needed, etc., should be directed to Frank Szemko, Assistant Cashier, The Peoples National Bank of Long Island, Patchogue, N.Y. (GR5-4700, Ext. 21).

According to Szemko, NYHEAC student loan applications for the Fall semester may be filed beginning July 1, 1968. If you have any anxieties with regard to paper work or eligibility, Mr. Szemko will review your application for completeness so that you will receive an early loan commitment.

Basically, the loan is granted to full or part-time students pursuing a degree course in New York State or elsewhere. The loans are for up to \$1,500 per year. The student pays no interest while in school. After graduation or termination of study, the student repays the principal at only 3% interest. The maximum repayment period is ten years.

Under the provision of the Higher Education Act a loan will not be denied a student because of family income or lack of need if his adjusted family income (N.Y. State Taxable Income) is less than \$15,000 per year. What this means to BNL employees is that if both husband and wife are working, or just husband or wife works, and the adjusted family income is \$15,000 or less, the loan application will not be denied. There is no further test of need. This does not preclude any employee with family income over \$15,000 from getting a NYHEAC loan. Many BNL employees are faced with the financial burden of supporting 2 or more college students at the same time. This need or any other personal circumstances may qualify those with family income over \$15,000. The only way to determine whether you are eligible for this loan is to file an application.

If you find it necessary to borrow money to finance a student's education and have shopped around for interest rates, you will find the NYHEAC student loan most attractive.

Summer Pool Schedule

Summer Schedule
Open Monday through Friday
12:00 Noon - 1:00 p.m. - Employees
1:00 p.m. - 9:30 p.m. - Employees -
Family - Guests
SCHEDULE SUBJECT TO REVISION

Summer Season Tickets
(June 17 through August 30)
Employee \$ 5.00
Family 10.00
Tickets will be on sale at the Pool Office.

Daily Admission Rates
Employee \$.35
Family Member .35
Guest .60

Parents bringing children to use the pool should not do so before 12:45 p.m.* Children are to remain in the designated waiting area near the pool's entrance until the pool opens for them at 1:00 p.m. and when waiting to be picked up by parents. The Gymnasium will not be available for this purpose.

*Please note time has been revised.

Round Robin Shoot

All members of the Round Robin Pistol Shoots are reminded that our third monthly pistol shoot is scheduled for Saturday, June 22 at 10:00 a.m.

There will be two grand trophies awarded at the end of the season for the members obtaining the highest single score of the year in the .38 and .22 cal. individual competition. To be eligible for this award, a member must participate in at least four of the shoots. All members are urged to keep the round robin as successful as it has been by attending and competing not only for the monthly awards but also for the grand trophies at the end of the season.

Trophies for last month's winners will be issued on the 22nd.

BERA Film Series

Thursday, June 27 - 8:00 p.m. Lecture Hall

Lazarillo

Directed and written by Cesar Ardavin, this film was the Grand Prize winner at the Berlin Film Festival. Ardavin has fashioned a poignant and sensitive film based on the celebrated novel "Lazarillo de Tormes." Set against the exquisite natural backdrop of 16th Century Spain, it recounts the adventures of a 12-year old urchin as he fights the war of wits and survival with the adult rogues he encounters. Given by his impoverished mother into the care of a blind beggar, he deserts him in favor of a sacristan-priest, then an elegant but impoverished squire, and finally attaches himself to an itinerant actor who, between performances, masquerades as a Friar and sells Papal indulgences. The boy's picaresque adventures are shown with subtle satire, quiet humor, and pictorial beauty; all in all, a sort of Rabelasian "Oliver Twist."

Short: Schmeerguntz

This film has been described as "one long raucous belch in the face of the American Home." It is brash, brazen, funny, and guaranteed to purge the soul of every harried American married woman. This film is for the mature of mind.

—Harvard Lyman

Movie Tonight: The Bell; The River.

Please note that this is a premier showing of The Bell in the U.S. Please come early for good seats.

Softball



by Tom Lee

Brookhaven League - In the head-to-head clash between the undefeated Blue Jays and the Old Timers, the Blue Jays won 8-6 and it took an outstanding defensive play by G. Oldham in the bottom of the Seventh to hold on to the victory. (The tying runs were on.) After winning on Monday the Blue Jays suffered a letdown and lost to the on-coming Batmen 6-3. The Old Timers bested the Bubble Boys 21-3 to move back into a tie for first place with the Blue Jays. In the Dirty Sox-Medical game, the final tally read Dirty Sox 7, Medical 2. In a make-up game the Batmen beat the Dirty Sox 13-7.

National League - Rained out.

Laboratory League - A.M.D., the League leaders, won a forfeit from the Charlie Browns to remain undefeated 6-0. The Converts have accomplished a deed which their team has never come near before. They won two games in a row - both in the same week. Monday, Converts 37 Charlie Browns 10 with 2 HRs by Mc-Nerney. Thursday, the Converts won over the Sharks 27-9. In the Deadwoods v. Mets game, the Deadwoods came out on top with 20 hits to win 14-2. B. (4-4) Vulcan had a HR and P. Karon was 4 for 5.

Mountain Club Meets

The BNL Mountain Club will meet Wednesday, June 26 at 8:00 p.m. in the Recreation Hall (in the apartment area). Henry Halama will show movies of his canoe trips in Canada; slides of other trips will be shown; and future trips (hiking, canoeing, caving, rockclimbing, etc.) will be planned. Everyone is welcome - summer visitors particularly. There will be singing afterward.

Personnel Services

At the Recreation Office

Open Daily 9:00 a.m. to 1:00 p.m.

Athletic Equipment - In stock right now for sale are baseball/softball gloves at a discount of 1/2 off list price, softball bats, softballs, tennis racquets, tennis balls, and other assorted athletic equipment, all at discount prices.

Tickets and Reservations Available - Theatre tickets to certain shows (listed below) may be purchased at a 20% discount and reservations for dinner/theatre may be made at a 10% discount. Schedules and prices are posted in the Office. All orders must be placed in person and accompanied by a check or money order at least two days in advance. Sorry - no discounts on Saturday nights.

Jones Beach Marine Theatre - June 27 through September 2 (except Friday and Saturday evenings) - "South Pacific" - Mail order tickets.

Mineola Theatre - Now through June 23 "The Three Sisters" with Kim Hunter; June 25 - July 14 "Hallelujah, Baby."

Westbury Music Fair - Now through June 23 "Guys & Dolls" with Betty Grable; June 25 - 30 "Illya Darling"; July 1 - 14 Buddy Hackett (no discount Thurs, Fri, Sat, Sun).

Wedgewood Dinner Theatre - Now through June 30 - "Funny Girl" with Denise Lor and Gardner McKay; July 12 - August 25 "Irma La Douce."

Mets Baseball Tickets - Excellent location behind Third Base. Seats available for July 12 Chicago, July 15 Philadelphia, July 26 & 28 Cincinnati. Buy now!!

Long Island Vacation and Travel Guide 1968 - Copies are now available at the Recreation Office. Booklet lists spots and attractions to see on Long Island. Pick up your copy now.

BERA Golf News

The BGA golf season is well under way. A number of tournaments and league matches have been played to date and here are the winners of the individual contests so far.

May 16th - 9 Hole Event

Low Net - Pete Colombo

Low Gross - Jim Conway

May 28th - 9 Hole Event

Low Net - Bill Tunney, John Van Norman

Low Gross - Les Lawrence, Joe Cardamone, Jim Conway, Dick Hildenbrand

Blind Bogey Event - Kay Trautwein

The next 9 Hole Event will be on June 27th, followed by a buffet and meeting at the club house. Trophies and awards for all tournaments to date will be distributed at this meeting. Registrations are due no later than Tuesday, June 25th so that food arrangements can be made. Come on out and enjoy yourself.

Classified Advertisements

Autos & Auto Supplies

66 BENELLI MOTORCYCLE - 125 cc, excel cond. \$200. 924-3783 after 5 p.m.

62 PLYMOUTH - 2 dr, std trans, 2 tires, excel running cond. K. Bubbs, AT6-8984.

64 DUCATI 90 TRAIL BIKE - Fair cond. \$50 or best reasonable offer. Tom, Jr., 475-7227 after 6:30 p.m.

59 RAMBLER - 4 dr, auto trans, A-1 cond, just tuned up, like new tires, 59,000 mi. 473-5394 eves.

67 SIMCA 1000 - Fully equipped, w/4 spd, excel cond. V. LoDestro, Ext. 7216, 862-8007.

67 FIREBIRD CONV - 11 mos old, OHC 6, extras 22 mpg, like new. Best offer over \$2150. Ext. 2888.

SPARE PARTS FOR HILLMAN - Tires new. Mike, Ext. 2314, AT9-0562 after 5:30.

60 COMET STATION WAGON - Std trans, new motor, starter, battery, etc 1966, good tires (pr snow incl), interior excel, exterior good. \$250. S. Earle, Ext. 583.

65 CADILLAC CONV - Midnight blue, white top, all pwr, air cond, w/w, \$3200. T. Browne, JU8-8600 after 5:30 p.m.

56 CHRYSLER NEW YORKER - Big car for little money. Sailor, Ext. 541.

59 FORD GALAXIE - 2 dr hdtp, auto trans, ps, r/h, V8, good cond. Jake, Ext. 375.

61 FORD PICKUP - 8' body, recent paint job. \$450. GR5-0002.

66 VOLVO - 2 dr, std trans, excel cond, 31,000 mi, radio. 286-9209.

63 VW - Red, sunroof, new eng, excel cond, 30,000 mi. Ext. 7162, AT6-9669.

64 T-BIRD - Ps/pb, auto trans, tiltaway wheel, good cond. Bob, Ext. 2167, 585-4973.

64 CORVETTE STINGRAY CONV - 327, 4 spd trans, Hurst linkage, posi rear, AM/FM radio. \$2200. Ext. 2726.

66 CORONET 500 - V8, hdtp, ctr console, bckt seats, ps, r/h, extras, excel cond, 18 mos old, owner leaving country. Best offer. Ext. 7618, AT6-1358.

TIRE - 6.70x15 Goodyear w/w, new, never used. \$10. Ron, 924-8681.

63 RAMBLER - For parts, good tires. Make offer. Ron, 924-8681.

67 BRIDGESTONE MOTORCYCLE - Scrambler, 175 cc, many extras. 727-1066.

66 VOLVO 1225 STATION WAGON - 4 spd, excel. \$1890. Bill, Ext. 2543, 286-8733.

Boats & Marine Supplies

18' OUTBOARD - 75 hp Johnson, sm cabin, fully equipped. \$850. Dick, Ext. 7229, 666-8973.

17' MFG FIBERGLASS BOAT - 60 hp Evinrude, elec start, pwr tilt, single lever, Morse controls, 2 tanks, navy top, all accessories, in water, excel cond. \$1000. D. Gurinsky, Ext. 349.

