

BULLETIN BOARD

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June 6, 1968

AGS Sponsors Summer Study

A six-week summer study on superconducting devices and accelerators will begin at BNL on Monday, June 10. The study has been organized by a committee under the chairmanship of John P. Blewett of the Accelerator Department.

Each week will be devoted to a particular subject and will be guided by a "chairman for the week." During the June 10-14 week, discussions, under the chairmanship of H.A. Schwettman of Stanford, will be on the subject of Superconducting Rf Cavities and Linacs. Chairman T.R. Strobridge of the National Bureau of Standards at Boulder will lead discussions on Cryogenics during June 17-21.

Superconducting Materials will be discussed the week of June 24-28 under the chairmanship of Arthur Paskin, BNL. July 1-3 week will cover Ac Effects and Flux Pumps, and S.L. Wipf of Atomic International will be chairman for the period. W.B. Sampson, BNL, will chair the July 8-12 session on Superconducting Magnets, and the final week, July 15-19, will be chaired by J.P. Blewett of BNL, and will cover Accelerators and Storage Rings Using Superconducting or Cryogenic Magnets.

Formal meetings of the summer study will be held in the AGS Seminar Room. Outside visitors will have office space in Building 923. Each week of the summer study will attract about fifty visitors from American and European superconductivity or cryogenics laboratories and from both American and European industry.

The first session will begin Monday morning, June 10, at 10 a.m. Information about details of the later program can be obtained by calling extension 2980 (or 7545 after June 10).

It Was Ikebana At Its Loveliest



At the May 27 Hospitality Committee meeting, left to right, Mrs. Y. Nagashima, Mrs. Mitsuru Hoshi, Mrs. Shinkichi Shibata, Mrs. Shoichi Sato, Miss Kimiko Yoshida, and Mrs. Yoriko Gotoh demonstrated the art of Japanese flower arranging. There were over thirty arrangements, done mostly with iris, carnations, chrysanthemums and delphinium. Not shown in the picture were Mrs. Junichi Iwai and Mrs. Gen Shirane who also participated in the demonstration.

Photos by Humphrey



Looking over "Gardens of Japan" are (left to right) Mrs. Hoshi, Mrs. Emery Van Horn, Chairman of the Hospitality Committee, Mrs. Nagashima, Mrs. Sato, and Mrs. Jack Chernick. The arrangement shown is of carnations and pine.

Enzyme Is Examined

6-36-68



Left to right: Elliott N. Shaw, Chairman of Symposium; C.H. Werner Hirs, Chairman of BNL's Biology Department; and Daniel E. Koshland, Jr., University of California, Berkeley, discuss a point raised on proteins.

Brookhaven Center To Open All Week

Beginning on Saturday, June 8, the Brookhaven Center will be open every evening from 5 p.m. until midnight. This schedule will remain in effect through Saturday, September 21.

Dinner will be served until 8 p.m. daily. Sandwiches and beverages will be available until 11:30 each evening.

These services are available to all employees of the Laboratory, Associated Universities, Inc., the Atomic Energy Commission, and their guests. Luncheon Club membership is not a prerequisite for evening use of Center facilities.

AEC To Send Data To IAEA Committee

The Atomic Energy Commission will make available to the newly formed International Nuclear Data Committee of the International Atomic Energy Agency the full content of its unclassified file of measured microscopic neutron cross-section data.

At the present time, the collection, compilation, and dissemination of neutron cross-section data is handled through the National Neutron Cross Sections Center at Brookhaven National Laboratory, New York, for the United States and Canada; the European Nuclear Energy Agency, Saclay, France, for countries of Western Europe and Japan; the Nuclear Data Information Center at Physics-Energetics Institute in Obninsk, Russia; and the Nuclear Data Unit of the International Atomic Energy Agency (IAEA), Vienna, Austria, for other IAEA member states in Eastern Europe, Asia, Australia, Africa, and Latin America.

INDC a Permanent Body

The IAEA's International Nuclear Data Committee (INDC) was established by the Director General as a permanent body on January 1. Its purposes are to promote international cooperation in all phases of nuclear data activity and to advise the Director General in this area.

The AEC's plan to make available to the IAEA the complete file of data from the National Neutron Cross Sections Center at Brookhaven is an extension of previous Commission agreements with the IAEA. These agreements provided for the exchange, on a step-by-step basis, of bibliographic references and indexing information in the field of nuclear data as well as detailed microscopic data; the AEC had previously agreed to furnish the IAEA with samples of microscopic neutron cross-section data.

An Editorial

Let's Keep Our Kids Safe

The *Bulletin Board* has been given the always unpleasant assignment of curbing the enthusiasm of youth. Some pre-school youngsters were recently observed running and playing in one of the buildings, and at one point trying manfully to operate a card punch machine.

Fault One: The children were apparently unattended, albeit temporarily, while the father was busy elsewhere.

Fault Two: Other adults in the vicinity paid little or no heed to the children.

We can all be thankful that nothing serious resulted from this incident, but the stage from which tragedy springs was certainly set. Tragedy doesn't just "hap-

Biology Conference Looks At Proteins

Over 200 scientists from universities and research institutions throughout the U.S. attended a three-day symposium held at BNL on the Structure, Function and Evolution in Proteins. Sponsored by the Biology Department, the meeting, which was held in the BNL Theater, reviewed recent results from various specialists on how enzymes work.

Enzymes are proteins that carry out the essential chemical changes in the body. According to Elliott N. Shaw, Chairman of the Symposium Committee, the enzymes perform their function "with great efficiency. The mystery about enzymes is rapidly disappearing as biochemists accumulate more evidence about protein structure from chemical and physical sources. A number of these involved in the metabolism of proteins, nucleic acids, and carbohydrates were discussed in the course of the meeting.

"Also, the symposium included evidence showing that throughout evolutionary history, the shape of a particular protein and a few, but essential, structural details have often been continuously maintained. This is true even though the enzyme is examined from a variety of living species from bacteria to man."

R.C. Anderson, Assistant Director, and C.H.W. Hirs, Chairman of the Biology Department, welcomed the attendees on Monday morning prior to the first session of the meeting.

Monday's discussions covered Hydrolytic Enzymes. Genetics and Evolution came under consideration on Tuesday morning, and in the evening there was a lecture on the Functional, Structural and Evolutionary Properties Reflected in the 4Å Resolution Model of Cytochrome c. The group toured the major facilities of the Laboratory Tuesday afternoon.

Wednesday's sessions covered Antibodies, Structural Proteins, and Subunit Interactions.

This meeting was the twenty-first in the Brookhaven Symposia in Biology series.

New Financial Feature To Give Helpful Hints

As an editorial service to *Bulletin Board* readers, a new column called "Dollars and Sense" will appear as a regular feature.

"Dollars and Sense," edited by Leon Meshel, Chief Internal Auditor of AUI, will start off this week with some words of wisdom about Social Security Accounts. Future columns will contain money-saving information on insurance, taxes, interest rates, estate planning and veterans benefits.

All of the subjects explored in "Dollars and Sense" will be presented in a "down to earth" manner in as simple terms as possible. Meshel promises that each column will lead to a possible saving of money either now or in the future.

The first article, which appears on Page 2 of this issue, will detail steps that can be taken to insure that Social Security funds have been properly credited to an individual's account. Meshel points out that errors can easily be corrected within three years of their discovery, but are difficult or impossible to correct after four or more years have gone by.

The second column, which will appear next week, will deal with Local Real Estate Taxes, and how to apply for partial exemption for veterans.

pen." The stage is usually set by the action or inaction of humans, who are quite responsible the other 99 percent of the time.

Let's avoid a tragedy at BNL by following a couple of simple, common sense rules.

1. When young children are brought into the central area of BNL, which includes the gym, swimming pool, cafeteria, etc., they should be under responsible supervision at all times.

2. Older children should be instructed not to wander into areas or buildings used by the Laboratory to carry out its research function.

We strive to make and keep the Laboratory a friendly place to work, and for many guests, a friendly place to live. Let's keep it that way, and let's be safe - not sorry. Sorrow has never yet undone a tragedy.

1968 Proton Linear Accelerator Conference



During a lighter moment during the Proton Linear Accelerator Conference held at BNL, May 20-24, are (left to right): G. Kenneth Green, Chairman of the Accelerator Department; A.M. Sessler of Lawrence Radiation Laboratory; and Ernest Courant of BNL.



(Left to right) Julius Spiro, Administrative Scientist of BNL's Accelerator Department; George Wheeler, Head of BNL's Conversion Division and Conference Chairman; and Edward Regenstrief of the University of Rennes discuss informally during the Accelerator Conference.



Seaman casts off line as attendees of the Proton Linear Accelerator Conference set sail on the Martha's Vineyard, Port Jefferson-Bridgeport ferry, on a cruise around the Port Jefferson Sound area.



Attentive to Lecturer George Dôme, CERN, (at the blackboard) are left to right: Edward Knapp, LASL, Chairman of Session on Structures; Alan Carne of Rutherford; Donald Swenson of LASL; Curt Owen of NAL; and Salvatore Giordano of BNL.

Here and There
Dolores del Castillo

U.S. Patent No. 3,386,040 was issued to the AEC on May 28, 1968, for "Particle Accelerator Including Means for Transferring Particles Between Accelerator and Storage Ring," invented by Alfred W. Maschke (Accelerator).

David Alburger (Physics) has just returned from Strasbourg, France. He has been doing research at the Centre de Recherches Nucleaires, and also participated in a Colloquium at the Centre.

Kenneth Downes (NED) recently returned from Vienna, where, as invited panel member, he attended an IAEA Panel on Revision of Safe Operations of Critical Assemblies and Research Reactors, held May 20-24. Just prior to the Vienna meeting, he visited at Harwell, England, for discussions with staff members.

Robert W. Powell (Reactor Div.) has been elevated to "Fellow of the American Nuclear Society," at the 14th Annual Meeting of the Society being held in Toronto. The ANS press release read in part: Powell has demonstrated leadership in the field of reactor operations for over twenty years. His executive ability, engineering

competence, and ingenuity have been instrumental in the effective design, construction and operation of the BGRR, the MRR, and the HFBR at Brookhaven National Laboratory where he is Reactor Division Head.

Joseph M. Hendrie (NED) has also been elevated to "Fellow of the American Nuclear Society." Associate Head of the Engineering Division of the NED, Hendrie was Project Engineer for the HFBR. He is also Project Manager of the Pulsed Reactor Project.

Dennis Puleston (Information Div.) has recently returned from his tour of duty with the AEC Atoms-in-Action Exhibit in Taipei, Taiwan.

Long Island Vacation And Travel Guide

This booklet covers all major points (and some minor ones) of interest on Long Island for this summer. Restaurants, lodgings, parks, transportation, museums, and golf courses are only some of the subjects covered, together with a map of Long Island locating many of these spots.

The Recreation Office now has copies of this valuable guide on hand. Stop by between the hours of 9 a.m. and 1 p.m. any day for your copy.



Peter Bramham of CERN (left) and Chris Schmelzer of the University of Heidelberg take time out to relax during the conference.



P.R. Tunncliffe of Chalk River (left) and Louis Rosen of LASL (right) carrying on discussions during a coffee break.



George Dôme, CERN, (left) discusses the finer points of his paper "A New Interpretation of Structure Compensation" with A.G. Ward of Chalk River (right).

Arrivals & Departures

Arrivals

Dominick G. Bartolomeo.....	Physics
Ollie J. Booker, Jr.....	Pl. Eng. & Plan.
Santo J. Di Naro, Jr.....	Mech Engr.
Kenneth W. Doughty.....	Mech Engr.
Patrick R. Gilleeny.....	I & HP
David L. Greenberg.....	Accelerator
Richard T. Imossi.....	Physics
Mahendra P. Jamuar.....	Medical
Barbara A. Pinto.....	Personnel
Chih-Cheng Wang.....	Biology

Departures

Chester S. Bedell.....	Ph. & Gr. Arts
Armando S. Cammarano.....	NED
Judith A. Kaltschmidt.....	DO
Patricia R. Minkiewicz.....	Physics
Josephine M. Po.....	Biology
Anna M. Reid.....	Biology
Balrha Raj Sehgal.....	NED
Helen A. Serine.....	Purch.
Joyce Vail.....	Medical
Edith M. Wicks.....	Plant E & P
Edward D. Zimmermann.....	Accelerator

BULLETIN BOARD

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NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Letters to the Editor should bear the writer's signature and life number, and indicate if the writer desires to have his name withheld from the published letter.

Dear Sir:
My daughters and I would like to thank Ed's many friends at Brookhaven for their thoughtfulness and sympathy at a time when it was very much needed and appreciated.

Gwen Bergin

Dollars and Sense
Leon Meshel

Take Time Out For A Social Security Checkup

Right about now, the Social Security Administration is busy posting its record of 1967 employee earnings to individual accounts. With the switch to computers and the huge volume of paper work involved, some errors are bound to creep in. Most employees assume everything is OK when they receive their W-2 statement of annual earnings for Income Tax purposes. This may not be so. What the Laboratory has reported as earnings may not necessarily be what has been credited to your account for Social Security purposes. So it's a good idea for you to check the accuracy of your earnings record in the Social Security Administration's files. If there is any mistake, you can have it corrected - if you don't wait too long. Generally, an earnings record can't be corrected more than four years back. Therefore, a checkup at least once every three years is the wisest procedure.

The Laboratory has obtained a post card form for checking an account from the Social Security Administration which may be obtained from the Bulletin Board Office, the Cashier's Office at 37 Brookhaven Avenue, or at the Personnel Office. All that need be done is to fill in name, age, and social security number, and sign and mail. All this for the magnificent sum of a 5¢ stamp. Where today can you get a checkup this cheap?

Most of us check our monthly bank statement, pay check, vacation balance, department store bills, etc., but here's an item usually overlooked in spite of it being so simple to check.

The response from your post card inquiry (with the usual Government dispatch, should take about three weeks) will show for example:

Earnings for Soc. Sec. purposes in year:	
1967	\$ 6,600 (maximum)
1966	6,600 (maximum)
1965	4,800 (maximum)
1964	4,800 (maximum)
1964-1957	18,237 (cumulative credit)

Remember, for Social Security purposes, the earnings reported to the Government are different than your gross earnings. The example above shows the maximum amount subject to the Social Security tax. So that if your earnings are more than the maximum for Social Security purposes (this year, 1968, the maximum is \$7,800), only the maximum will be credited to your account and used in figuring your benefits when you retire. The cumulative credit for earlier years is more difficult to check insofar as your tax returns or other records of earnings for years long past may not be around anymore. (My wife keeps her freshman year term paper of 15 years ago but throws out old tax returns. You may have the same difficulty with old records.)

In any case, the current years are important and the need for a Social Security checkup every three years should be emphasized.

NRTS Was Scene Of First Use Of Nuclear Power For Lighting



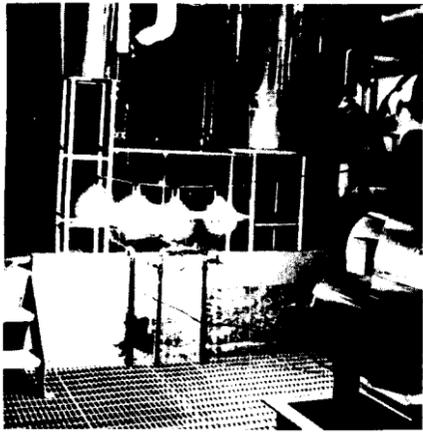
Aerial view of the Naval Reactors Facility at National Reactor Testing Station.

This is the third in a series of articles from the AEC describing National Laboratories devoted to research on Atomic Energy.

Idaho Falls, Idaho - Four ordinary light bulbs burned in an isolated building in the desolate Idaho sagebrush country on the morning of December 20, 1951. The bulbs were commonplace enough, but there was nothing ordinary about the power that was lighting them on the winter's day more than a decade and a half ago.

The energy that made them glow came from the EBR-1, the first nuclear reactor to be built at AEC's National Reactor Testing Station, an hour's fast drive from this bustling southeastern Idaho community. The experiment was the first practical demonstration of obtaining usable power from a nuclear reactor the world had ever seen.

The next day the EBR-1 (for Experimental Breeder Reactor No. 1) produced enough power to light the entire facility.



The electric light bulbs in this photo show the first known use of electric power from atomic energy.

Everybody was abundantly sure, in the late 1940's, of what could happen when the new-found energy of the atom was suddenly unleashed in all its fury.

But nobody was quite sure what could happen when man began to use nuclear reactors to control this energy and release it gradually for non-destructive purposes.

The AEC established the National Reactor Testing Station in 1949, two years after BNL was started, to do just what its name implies - test reactors.

Situated on a mile high plateau in the Snake River Valley, the NRTS covers an enormous tract of 894 square miles that is more than three quarters the size of Rhode Island. Dotted by towering buttes, the land is a sweeping plain of lava, sagebrush and vast silences where time seems to move in eons.

Mastodons roamed the area 25,000 years ago. Antelopes are its only permanent inhabitants today. It was clear that if something did go wrong with an experimental reactor, the remoteness of the Idaho desert could be relied upon to contain the consequences.

Today, the National Reactor Testing Station has, by any count, the world's largest collection of power, propulsion, research and testing reactors and related equipment. More than 40 of these facilities have been built there at a cost of nearly \$500 million.

The First Nuclear Submarine

A plaque on the side of the EBR-1 now commemorates it as the first reactor to provide power for actual electrical generation and the four light bulbs are treasured mementoes of this historic achievement.

Despite the light bulb experiment, however, it was to be another use of nuclear

energy that was to be developed first at NRTS to lead indirectly to construction of the first civilian nuclear power reactor.

Obviously, such a fuel as uranium would be ideal for submarines which, in the 1940's, were severely limited in underwater range by their oxygen requirements and the constant need to recharge their electrical batteries. Thus, the construction of the Navy's first nuclear submarine, the USS Nautilus, was authorized by Congress in August, 1950.

In 1951, construction of a prototype submarine reactor took place in two submarine hull sections specially erected at NRTS to simulate conditions which would be found on the USS Nautilus. Gradually, amid a maze of pipes, wires, motors, valves and instruments, the reactor began to take shape.

On May 31, 1953, the prototype reactor was brought to power. A few weeks later it staged a 66-hour full power run equivalent to a non-stop underwater trip from Newfoundland to Ireland at top speed.

Then, on January 21, 1954, the actual Nautilus was launched with a similar reactor in her hull and the U.S. nuclear Navy was born. The ship was to make naval history in 1958 by traveling 1,830 miles under the polar ice cap from the Pacific to the Atlantic Ocean.

Developing Civilian Power

Meanwhile, the design and development of successful submarine reactors were providing the technology for a plant that could demonstrate the feasibility of nuclear energy for full-scale electric power production.

The result was the Shippingport Atomic Power Station built near Pittsburgh, Pennsylvania, as the nation's first nuclear power station. Shippingport went "on line" in December, 1957. Today after a decade of steady operation, Shippingport is still supplying large quantities of power to the Pittsburgh area.

Among the 40 reactors and supporting facilities erected at the NRTS are test reactors which have played a significant part in civilian nuclear power development.

These include the Materials Testing Reactor, or MTR, completed in 1952 to test reactor construction materials and operation methods. Its purpose was to make sure that these materials and methods were safe to use and to find this out in weeks or months instead of the years it would take under actual power reactor operations. Almost every power reactor in existence in the world today owes some debt to knowledge gained from the MTR.

Toward Increasingly Efficient Reactors

A primary goal of the AEC's continuing power program is the development of reactors which will make more efficient use of the uranium fuel in their cores than present day power reactors are able to do. The ultimate objective is to achieve so-called "breeder" reactors which actually will produce more fuel than they consume.

One way to accomplish this seemingly magical feat is to use radiation from an operating reactor to turn a non-readily fissionable type of uranium called U-238 into a readily fissionable artificial element called plutonium. The plutonium then would be used as reactor fuel. The National Reactor Testing Station has played and is playing an important part in this effort.

The Experimental Breeder Reactor No. 1, the reactor that powered the light bulb experiment, was the first to demonstrate that this kind of breeding is actually feasible. It did so in a series of notable experiments in the 1950's.

Its successor, the Experimental Breeder Reactor No. 2, or EBR-2, was designed to further demonstrate the feasibility of the breeding concept. EBR-2 is currently the key irradiation test facility in the AEC's Liquid Metal Fast Breeder Reactor program - the Commission's principal approach to the development of the fast breeder reactor concept.

Once attained on a commercial scale, breeding will permit essentially all of the uranium in our nuclear fuel resources to be used for energy instead of a tiny fraction of it, as is now the case.

Other NRTS Programs

A nuclear power reactor builds up quantities of radioactive materials called fission products which must be periodically removed from its fuel core if the reactor is to continue to operate economically.

When the build-up reaches a certain point, the spent fuel is removed from the reactor to a plant where chemicals are used to dissolve it and to separate the fission products from the unused uranium.

An engineering triumph at NRTS is the \$56 million Idaho Chemical Processing Plant which has developed a continuous dissolution process that greatly expedites this chore. The plant, which has attained international recognition for this and other advances, has been salvaging unused fissionable uranium - worth about \$300 an ounce - from reactor fuel elements since 1953.

Another NRTS plant, called the Fuel Cycle Facility, has been built to demonstrate the practicability of melt-purifying salvaged fuel and refabricating it - on the spot - into new fuel elements in a fully-integrated, closed cycle plant operated by remote control. The process is a first in reactor technology.

Other NRTS reactor activity has included development of small portable power reactors designed for military use under field conditions; work on advanced submarine reactors and reactors for naval surface vessels, including the carrier Enterprise, the cruiser Long Beach and the frigates Bainbridge and Truxtun; a nuclear aircraft program; and a power reactor designed to use an organic liquid instead of water to remove heat from the core.

Statistics

The National Reactor Testing Station, managed by the AEC's Idaho Operations Office in Idaho Falls, employs approximately 5,000 people, including Government personnel and workers for six contracting companies which operate the facility for the AEC.

The largest single employer in Idaho, the site has combined payrolls and supply and equipment purchases that pour some \$60 million into the Idaho economy each year.

The population of Idaho Falls has risen from 19,000 in 1949, when the NRTS was established, to nearly 40,000 today. Some 30 nearby communities where NRTS workers and their families also live have grown similarly.

The population rise has stimulated the growth of new businesses and services to meet the needs of new residents and has had a similar effect on the growth of schools, hospitals, churches and similar facilities in this southeast corner of Idaho.

Additionally, the station and its technological programs have afforded Idaho young people, particularly college graduates, new opportunities to find highly remunerative and satisfying jobs at home.

For all these reasons it sometimes is suggested that the atomic symbol share equal billing with the famed Idaho potato on the state's automobile license plates.

Mostly, the suggestion is made lightly or in jest, but there are many who think that the idea may not be so far fetched after all.

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, 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

Driving Course To Be Offered

The U.S. General Services Administration's Defensive Driving Course will be held at the Lecture Hall on Brookhaven Avenue on June 10 and 11, from 8:30 a.m. to 4:30 p.m.

The two-day course will be presented by auto safety expert John Gyakum of the Motor Equipment Management Division of the GSA. He is a member of the Washington D.C. section of the Institute of Traffic Engineers and has spent the last 19 years in the field of training and instruction.

The program is open to Brookhaven employees and to Federal vehicle operators from all government agencies in the Suffolk County area. Those wishing to attend are asked to check through their Department supervisor before registering.

To register or obtain further information, call William Barnes at the Security Office, extension 2393.

BERA Film Series

Thursday, June 13 - 8:00 p.m. - Lecture Hall

Don Quixote (Russian)

This version of Cervante's masterpiece is probably the best ever produced, and this includes the Spanish version. The director, Kazintsev, has grasped the spirit of Cervante's work and has made a film lavish with pomp and color but fully realizing Quixote's noble madness in the face of life's ignominies. The title role is played by Nikolai Cherkassov, whom many will remember for his portrayal of Alexander Nevsky. This is a stunning color film with all the characters coming to life on a vast screen, full of dramatic detail. It is an experience not to be missed, for purely cinematic pleasure as well as for its superlative translation of a character and an age.

No Short.

—Harvard Lyman

No Movie Tonight.

Softball



by Tom Lee

Due to rainouts and postponements, the softball standings are not up to date. The Laboratory League played last Monday and their results will be posted next week.

The standings as of May 27th are:

Brookhaven League	W	L
Blue Jays	3	0
Old Timers	3	0
Dirty Sox	2	1
Batmen	1	2
Bubble Boys	0	3
Medical	0	3
National League	W	L
Metallurgy	3	0
Make-Ups	2	1
Potsareebies	2	1
Rat Pack	1	2
Phoubars	1	2
Six Pax	0	3
Laboratory League	W	L
AMD	3	0
Mets	2	1
Deadwoods	2	1
Sharks	1	2
*Charlie Browns	0	2
*Converts	0	2
*Postponed game		

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 9 "Light Up The Sky" with Arthur Hill, Barbara Bel Geddes and Beatrice Straight; June 11-23 "The Three Sisters" with Kim Hunter.

Westbury Music Fair - June 4-9 Jerry Vale and Morty Gunty; June 11-16 Rowan and Martin Show; June 17 Pete Seeger; June 18-23 Guys & Dolls.

Wedgewood Dinner Theatre - Now through June 30 - Denise Lor and Gardner McKay in "Funny Girl."

Mets Baseball Tickets - Excellent location behind Third Base. Seats available for July 2 and 4 Pittsburgh. 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.

Classified Advertisements

Autos & Auto Supplies

65 LAMBRETTA - Motor scooter, 150 cc, 1300 orig mi, excel cond. \$325. Bill, Ext. 2543.
 62 FALCON - Wagon, fully equipped, good shape. \$245 takes it. R. Young, Ext. 591, LT9-5755 after 6 p.m.
 64 DODGE - 2 dr hdt, black, 426, 4 spd, mag wheels, headers, dual quads, the works, beautiful cond, must be seen. \$1100. A. LaMonica, AT6-0404.
 66 MUSTANG - Blue, conv, V-8, 2 new tires, very good cond. Kathy, Ext. 2813, 289-5234 after 6 p.m.
 60 HILLMAN - Conv, good cond. \$100. Ext. 2294.
 BEACH BUGGY RIMS - 4 rims, 6 lug 15". \$40. Ext. 7166.
 63 FALCON - Conv, auto trans, w/w tires. Asking \$600. Petty, Ext. 2512.
 2 TIRES - 1.65x15 radials w/tubes, less than 3000 mi. \$50. Whitey, Ext. 7791.
 66 DART GT - Gold w/vinyl top, bckt seats, auto trans, ctr console, ps, new brakes & snow tires, big 6 cyl, 23,600 mi, excel cond. \$1500 firm. P. McHugh, Ext. 7164.
 66 CORONET - Hdt, V8, ctr console, bckt seats, ps, extras, little more than 1 yr old, 19,000 mi, excel cond. \$1880. Ext. 7618, AT6-1358.
 6.50x13 TIRES - 1 good for spare, \$1; other \$2. M. Strongson, Ext. 2727.
 13" WHEEL - 5 lug, for Chevy II. M. Strongson, Ext. 2727.
 TRAVEL TRAILER - 15' 1965 Scotty Hi. Lander, self contained, sleeps 6. \$1500. EM3-6795.
 61 LAMBRETTA - Motor scooter, 150cc, buddy seat, spare wheel, clock, excel cond. \$100. Ext. 597, AT6-0436.
 2 SLICKS - Last time make offer. B. Edwards, 289-3894 before 5 p.m.
 65 TRAVELMASTER TRAILER - 25', self contained, twin beds, w/w carpet. LT9-0348 after 6 p.m.
 63 PLYMOUTH - Station Wagon, 4 dr V8, r/h, auto trans, ps, good cond. T. Morris, Ext. 7739, 744-5096.
 66 PONTIAC GTO - Conc, ps/pb, r/h, auto trans, excel cond. \$1850. A. Trakatellis, Ext. 7212, 7134.
 66 VW CAMPER - Microbus, good cond, must sell. \$1300 or best offer. D. Luers, Ext. 7792, 744-6475.
 65 HONDA - 150 cc, less than 2000 mi, carrier, helmet. Mark, Ext. 7367, 473-7705 after 7 p.m.
 65 PLYMOUTH VALIANT - Good cond. R. Wiswall, Ext. 2101.
 62 MERCURY MONTEREY - \$500. 281-6732.
 TIRE - 5.60x14 Goodyear, excel cond. \$10. W. Lundgren, Ext. 2407.
 PICKUP-CAMPER - '66 GMC, 3/4 ton, 4 spd pickup w/Ravella camper, 6 berths, hot water, stove, heater, toilet, shower, refig, excel cond. AT6-0798.
 66 TWIN YAMAHA 100 MOTORCYCLE - Low mileage, helmets & tools. B. Gneuchs, 475-1054 after 5:30 p.m.
 66 HONDA 305 CC SUPER HAWK - Extra chrome, custom bars & seat, new battery, excel cond. \$475. Bob, Ext. 7163.
 65 VW CONV - Red, w/w, radio, excel cond in & out. \$950. Paul, Ext. 2143, 281-3634.
 66 SEARS MOTORCYCLE - Model 810, 49cc, less than 2000 mi, tools, helmet. Best offer. R. Adams, Ext. 2979, 744-2326 after 5 p.m.
 60 DESOTO - Ps/pb, r/h, good cond, but needs tires. \$280. Ext. 7688, 929-8141 after 7 p.m.
 60 DODGE 3/4 TON PICKUP - 8 ply tires, 4 spd trans, new brakes, runs well. \$375. Jo Ann, AT6-9501.

66 PONTIAC GTO - Fully equipped, never raced, excel cond, w/4 spd. V. LoDestro, Ext. 7216, 862-8007.
 60 TRIUMPH TR-3 - Eng recently overhauled, TR-4 trans. D. Michael, Ext. 7615, 751-8776.
 63 VW - Red, sunroof, new eng, new tires, good cond. Sale or exchange for a boat. Ext. 7162, AT6-9669.
 65 FORD MUSTANG - Auto, wide oval tires, only 34,000 mi, must sell. Tony, Ext. 7356.
 60 COUNTRY SQUIRE FORD - Very good cond, tires under guarantee. \$350. 7289, 281-3008 after 6 p.m.
 61 STUDEBAKER LARK VI - 4 dr sedan, excel cond, low mileage. \$245. Ext. 7289, 281-3008 after 6 p.m.

Boats & Marine Supplies

26' DODGE CABIN CRUISER - 105 hp FWC Nordberg, sleeps 4, head & galley, fully equipped, in water, ready for season. E. Reilly, Ext. 434, AT6-1192.
 OUTBOARD - 59 Evinrude Lark 35 hp, excel cond, incl elec start & controls. \$185. W. Bell, 751-8872.
 65 EVINRUDE LIGHTWIN - Used 3 hrs in fresh water, 3 hp, perfect cond. \$100. R. Aronson, Ext. 2922.
 18' JAFCO SKIFF - Flagship V8, ready to go. \$1400. Ext. 2908.
 NAVY TOP - Good cond. \$15. Bob, Ext. 2265.
 27' CHRIS CRAFT CRUISER - 185 hp eng used only 140 hrs, s/s, plus many extras, excel cond, ready to go. L. Emma, Ext. 2801.
 32' POWER BOAT - Cabin, head, 2 bunks, 115 hp Chrysler Crown like new, in water, sturdy, comfortable. \$1495. Stang, Ext. 379, LT9-3269.
 14' SCOTCHCRAFT RUNABOUT - Fiberglass bottom, windshield, steering, controls, tank, cushions, new deck, wide beam, good cond. 475-0002.
 RUNABOUT - All fiberglass, 14', 25 hp motor, controls, navy top. \$395. 878-2863.
 SLOOP - Gil Smith 23', w/shelter cabin, hull fiberglassed, dacron main sail, excel cond. \$800. Ext. 7233.
 SAILBOAT - 18' Cape Cod Knockabout, fiberglassed, 2 sets of sails (dacron), new centerboard trunk, seaworthy, good cond. /8' dinghy-fiberglassed, 3 1/2 hp outboard (2 yrs old). \$650. 473-3036.

Miscellaneous

HI-FI STEREO - Heath Kit, many pieces, good for electronics bug. \$20 or best offer, orig over \$100. Ext. 2543.
 INFANT SWING - W/sunshade, \$4; infant seat, \$1.50; bathtub seat, \$1; assorted maternity clothes, size 12, \$10. Bill, Ext. 2543, 286-8733.
 ELEC ROTISSERIE - For outdoor bar-b-que grill, never used, \$3; car cushion, \$2. Bill, Ext. 2543.
 HORSE - Buckskin gelding. \$175. Nancy, Ext. 2114, AT6-9009 eves.
 SOFA-LOVE SEAT - Modern swiss made, excel cond, owner leaving country. \$50. Ext. 7618, AT6-1358.
 OLIN SURFBOARD - 9'8" used 1 summer, excel cond. \$85. Ruth, Ext. 342.
 CLOTHES WASHER - Westinghouse front load automatic, 9 yrs old. \$25. 929-4714.
 REFRIGERATOR - 7 1/2 cu ft, old but working. \$30 firm. Schoener, Ext. 2295, 878-1584.
 REFRIGERATOR/FREEZER - Hotpoint Mod. 60, approx 13 cu ft. \$30. Ext. 7618, AT6-1358.
 18' POOL - Used 1 season, excel cond. Cost \$500. sell \$250. Ext. 7407.
 AIR CONDITIONER - 22,000 BTU, 220 volts, Sears, used 2 summers, powerful enough to cool whole floor. \$150. G. Baker, Ext. 7372.

WOODED PLOT - Located in Shirley only 10 min. from Lab, over 1/2 acre. \$2500. Jerry, Ext. 2532.
 COMPL LIV RM - Contemporary, 4-pce sectional, 2 chairs, 3 glass top tables, 3 lamps. Must sell, \$250. J. Guthy, Ext. 2450.
 PAPERBACK BKS - Pool filter; new stair treads; lawn spreader. 924-8681.
 POODLES - Minis, apricot, male-female, permanent shots. Diane, 924-8681.
 SECTIONAL SOFA - 2 pce, curved, white naugahide, 14' seating area. \$150. Dave, Ext. 2824.
 ENGLISH SETTER PUPPIES - AKC reg, health guaranteed, field, pet or show. 924-3124 after 6 p.m.
 18' POOL - Used 1 season. Cost \$500, sell for \$250. Ext. 7407.
 POLAROID 104 LAND CAMERA - Color & b&w, used very little, incl flash & leather case. \$45. Ken, Ext. 2207.
 HARDMAN-PECK - Beautiful walnut, matching bench, won on TV, 3 mos old, 25 rolls. Worth \$1400, sacrifice \$900. HR3-5063.
 GERMAN SHEPHERD PUPS - AKC, champion blood lines. Males, \$65; females, \$50. J. Raho, Ext. 464, HR3-7291 after 6 p.m.
 DIN RM TABLE - Drop leaf, 60"x30" w/8" insert, walnut, \$45; China cabinet, mahogany, \$65; bedrm suite, 1/4 bed, box spring mattress, chest, dressing table w/ mirrors, \$40. 286-1218.
 WOOL RUGS - 9x12, \$35; hall runner, 24x27, \$15. 286-1218.
 BEDRM SUITE - Mahog dble bed, box spring & mattress, dble dresser & chest, night table. \$175. 286-1218.
 CHAMBERS GAS STOVE - 36"; folding staircase; floor furnace, oil fired, w/burner & controls; gas hw heater, 40 gal. Neal, Ext. 7488.
 GREENHOUSE - 12'x20' Lord & Burnham, plastic cover. John, Ext. 7750, 734-6991.
 POLAROID CAMERA 800 - Wink light, flash, case. R. Adams, Ext. 2979, 744-2326 after 5 p.m.
 HOT WATER HEATER - Gas, 30 gal, excel cond. \$50. Carl, Ext. 7440, YA4-3528.
 HOT AIR FURNACE - Oil, working cond. \$50. Carl, Ext. 7440, YA4-3528.
 PUMP - 1 hp deep well 2-stage jet, Rapidayton, approx 3 1/2 yrs old, good working cond. As is, \$50. Willis, Ext. 7503.
 FREE - 17" TV tube, square, used very little. K. Bubb, AT6-8984 after 5:30 p.m.
 ALCOHOL HEATER - Heat-Pal, adjustable, 3600 BTU. \$15. G. Stenby, Ext. 2804.
 PORTABLE STEREO - Voice of Music, all solid state, used only 3 times. \$75. J. Jacobs, Ext. 2955.
 FIREPLACE TOOLS - Wrought iron & wood, like new, orig \$70, will sell for \$40. Ext. 2955.
 HAUL NET - 150', about 1 1/2" stretch mesh, compl w/floats, weights. \$30. Ext. 597, AT6-0436.
 GIRLS BIKE - 26", single spd, light frame, front basket, rear rack. \$15. Ext. 597, AT6-0436.
 SEWING MACHINE - Portable, Singer. \$15. C. Ruege, Ext. 451.
 INSTANT GLAMOUR - Lt ash blond fall, w/head & carrying case, worn twice. \$70. Susan, Ext. 2313.
 BAR-B-Q GRILL - 24" round w/hood & motorized spit, like new. \$7.50. Susan, Ext. 2313.
 20" TAPPAN RANGE - 1 yr old, bottled gas. Kalbfleisch, 744-5741.
 LOT - Over 1/2 acre, heavily wooded, private beach, marina & ramp, on Gardiners Bay, springs, E. Hampton. 732-5218.
 RECORD PLAYER - RCA Victor Orthophonic High Fidelity, 45 rpm, portable, very good cond, auto changer, push/pull output dual speakers. \$20. S. Smith, Ext. 7676.
 TORO REEL - 24", heavy duty, 6:1 gear reduction eng, elderly but excel. \$60. Jensen, Ext. 7788, AT6-0880.
 WINCHESTER 64 MODEL 70 - Cal 30-06, target varmint stock plus orig stock, sling, like new. \$130. F. Rumph, Ext. 2221.
 CHINA CABINET - \$65; table, \$45; mahog bedrm suite, 4 pc, 100; 9'x12' rug, \$30; 27"x27" hall rug, \$15. 286-1218.
 STEREO - All prof components: Janszen, AR, Dyna, will sell separately. Sacrifice, must sell. Ext. 2888.
 8MM MAUSER - NRA excel, sporterized. Ext. 2888.
 YARD SALE - Sat., June 8, 10 a.m., 7 Lake Ave, Center Moriches, across from shopping center, furniture, antiques, odd & ends. Jean, Ext. 7164, 878-1743.
 AMPEG REVERB AMP - Guitar or accordion. \$125. H. Lobe, Ext. 2314.
 KITCHEN SET - Formica table top, 4 chairs, extra leaf, like new. \$35. H. Lobe, Ext. 2314.
 GERMAN SHEPHERD PUPS - AKC champion blood lines. Females, \$50; males, \$65. J. Raho, Ext. 464, HR3-7291 after 6 p.m.

GONSET MARINE CONVERTER - Model 3163, to be used w/car radio. \$14. Ext. 7166.
 40 GAL HW HEATER - 36" Chambers gas stove. Neal, Ext. 7488.

Houses

SELDEN - 1 1/2 story cape, 7 rms, old but well maintained, hot water heat. \$10,500. 732-9384.
 PATCHOGUE - 3 bedrm colonial, close to stores & school, full basement, 2 car garage, lg lot, available Sept 1. \$21,500 or rent \$165/mo. 475-6881.
 STRATHMORE - At Stony Brook, new Framingham at less than cost. Take over mortgage, a bargain. Paul, AN5-5587.
 BROOKHAVEN VILLAGE - 4 bedrm ranch, liv rm, din rm, porch, 1 1/2 baths, dble garage, 1 1/2 acres, fully landscaped, 150' front. AT6-1358.
 RIDGE - 3 bedrm ranch, eat-in kit, din rm, s/s, full basement. 924-6860.
 MILLER PLACE - Clarendon custom cape, 2 bedrm, formal din, liv rm, w/fireplace, 2 car garage, full basement, 30' dormer in expansion attic. J. Jacobs, Ext. 2955, HR3-6482.
 SHOREHAM - 1 yr old col, 3 bedrms, din rm, rec rm, 1 1/2 baths, full basement, 1/2 acre, wooded, garage, beach rights. \$22,900. 744-8388.
 STONY BROOK - 200' shore-front bluff-top, new beach stairs, 1 1/2 acre heavily wooded 23x23 liv rm, fireplace, din rm, 4 bedrms, 2 baths, full basement, patio, 2 car garage. \$45,000. Ext. 2235.
 BROOKHAVEN VILLAGE - 3 bedrms, liv rm, din rm, fam rm w/fireplace, garage, 1 1/2 baths, landscaped 1/2 acre, dishwasher, many extras, will rent. 286-1218.

For Rent

YAPHANK - 5 mi from Lab, 3 bedrm apt, full basement, garage, fenced backyard, avail July. GR5-0033.
 SUMMER RENTAL - 3 bedrms, 2 baths, in Brookhaven hamlet, avail for mo of Aug. \$150. D. David, Ext. 7525, 286-2267.
 8 RM FURN HOUSE - Pt. Jeff, Harbor Hills, Aug 15 for 1 yr, going abroad. \$275/mo. Warburton, Ext. 2218, 473-7530.
 SUMMER RENTAL - July & Aug, lg new 4 bedrm furn home in park like neighborhood w/priv beach. \$100/wk. Ext. 2836, 744-3235.

Wanted

TYPING - Term papers, etc, to do at home. Claire, Ext. 2131, 281-9034 after 5:30 p.m.
 CAR SEAT - In good cond & clean. For about \$3. D. Miller, 281-8579.
 DONATIONS - Wheel toys for Head Start Program. Nancy, AT6-9009, 281-6750.
 UNFURN HOUSE - 2 or 3 bedrm, for approx 4 mos from mid-June 1968. 473-5331.
 JOB - Experienced capable teenager seeks job babysitting or mother's helper, Monday to Friday, full or part time, site or Mastic/Shirley. 281-8458.
 ROOMMATE - To share cottage for summer, 10 mi to Lab, across street from beach. Rich, Ext. 388.
 COMPRESSOR - 1 hp or larger, for spray painting. Bob, Ext. 7769.
 HOMES - For 3 kittens, 8 wks old, gray & white, 1 male, 2 females. Claire, Ext. 2131.
 FISH TANK - 10 gal, stainless steel or brass frame. \$2-\$3. E.W. Anderson, Ext. 2835, 289-0742.
 NIKOR F OR FTN - Reasonably priced; Auto Nikor lens from 21mm to 500mm. 878-0071.
 PHONOGRAPH - Inexpensive, but in good cond. Woodley, Ext. 352.
 DAY CARE - For 1 yr old boy, 3 days/wk, Medford area or on site. Janet, Ext. 456. 475-7025.
 MINIATURE SCHNAUZER - AKC reg, 2-4 mos old, silver in color. Lori, Ext. 7600.
 BLOOD DONORS - For my wife Anna for open heart surgery. For information, call George, Ext. 2965.
 STROLLER - Vito, Ext. 2287, 878-2702.
 AM-FM TUNER - M. Strongson, Ext. 2727.
 TO TRADE - Yellow/purple iris for yellow/brown, white etc, not interested in blues & purples. S.A. Dunwoody, Ext. 2888.

Carpools

DEPENDABLE DRIVER - To make 4 man carpool from Bellport, 8:30 to 5 p.m. B. Kropp, Ext. 2465.
 WOULD LIKE TO JOIN - Carpool from Morton Village, Plainview, 0830-1700. OV1-0125 after 5 p.m.
 RIDER/DRIVER - Wanted to compl 5 man carpool from Bellport, South Country Rd. area. Bill, Ext. 2543.
 3 MAN CARPOOL FROM QUEENS AREA - Seeking 4th member. Ext. 2445, 2446, 2725.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following Thursday.

- The Bulletin Board's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Persons listing houses, apartments, or rooms for sale or rent, do so with the understanding that these must be available without regard to race, creed, color, or national origin.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Ads should be restricted to 20 words or less and typed

- or printed on the form provided, and must bear the employees signature.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Firearms offered for sale or trade may not be brought on site.

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| <input type="checkbox"/> For Sale: Auto & Auto Supplies | <input type="checkbox"/> For Sale: Houses | <input type="checkbox"/> Carpools |
| <input type="checkbox"/> For Sale: Boats & Marine Supplies | <input type="checkbox"/> For Rent | Check <input type="checkbox"/> the heading applying to your ad. |
| <input type="checkbox"/> For Sale: Miscellaneous | <input type="checkbox"/> Wanted | Print or type your ad in 20 words or less. |

(Name & Phone No. To Call)

If this ad concerns housing for sale or rent, such housing is available without regard to race, creed, color, or national origin.

Employee's Signature Life No. Ext.

Send to: BULLETIN BOARD, 40 Brookhaven Avenue