

# BULLETIN BOARD

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July 11, 1968

## Superconducting Summer Study

7-106-68



In the fourth week of the six-week summer study sponsored by the Accelerator Department, Organizing Chairman John Blewett (left) is shown talking with Myron Strongin, BNL Physics Department; H. Laquer, LASL; and Stephan Wipf, Atomics International. Dr. Wipf was Chairman of the session devoted to Ac Effects and Flux Pumps. Meetings of the group are held in the AGS Seminar Room. 7-142-68



W.B. Sampson, BNL, will chair the current session of the Accelerator Department Summer Study entitled Superconducting Magnets.

## New Income Tax Withholding Rates

Weekly employees will feel the impact of the increased Federal Withholding tax in their paychecks for week ending July 14. For monthly employees it will be reflected in payroll checks issued July 31.

Since the effective date of the tax increase is retroactive to April 1, 1968, but withholding will not start until July 1968, most employees will find that their refund for taxable year 1968 will be lower, or they may owe an additional amount when they file their tax returns. Those BNL employees who wish to offset this condition may do so in the following way: 1. File a new W-4 with the Payroll Section reducing the number of exemptions, or 2. Send a memo to the Payroll Section authorizing an additional withholding amount.

Any questions should be directed to Payroll Supervisor Olga Vario, Ext. 2342.

## Stephen Van Dervoort Memorial Scholarship

A memorial scholarship has been established at Longwood High School to honor the memory of Stephen Van Dervoort, 21-year old son of Frederick W. Van Dervoort of the Physics Department and Teresa Van Dervoort of the Information Division.

Young Van Dervoort was killed Sunday night, June 30th, in the line of duty as a security guard at a factory in Brentwood.

A graduate of Longwood High School in 1965, Stephen Van Dervoort was attending Oneonta State University, studying to become a radio announcer. He was program director of a closed circuit radio station which serves the college campus and the Oneonta community. He was a member of the Alpha Phi Omega Fraternity and of the National Fraternity of Honorary Collegiate Broadcasters, Iota Beta Sigma.

The Van Dervoort family had asked that donations be sent to the Longwood Scholarship Fund. Such donations may be sent to: Longwood High School, Longwood Road, Middle Island, c/o Stephen Van Dervoort Scholarship Fund.

## Morning On-Site Play Sessions

This morning program is for the children of on-site residents only. Participants must be at least five years of age. Teenagers are encouraged to participate.

The sessions will be held daily from 9:00 a.m. to 11:30 a.m. at the Recreation Building in the Apartment Area. Applications will be sent directly to residents. Several special programs will be scheduled to afford parents an opportunity to see or join their children in action.

## Weather Watchers Set For Monday

*St. Swithin's Day - If thou dost rain  
For forty days it will remain.*

*St. Swithin's Day - If thou be fair  
For forty days 'twill rain na mair.*

On Monday, July 15, St. Swithin's day will be observed with apprehension by traditionalists who forecast the weather by means such as Ground Hog Day, woolly-bear caterpillars and the Farmer's Almanac. If it rains on Monday, we are supposedly set for another forty days of rain. A fair day on Monday will lead to fair weather through August 23.

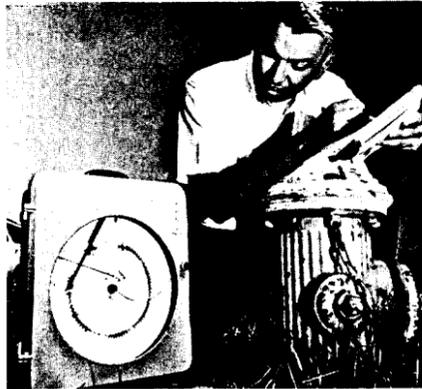
If it should rain on Monday, the Meteorology Group of I & HP will have a record of the amount and intensity of the rain. A few weeks ago when a sudden down-pour engulfed the Lab during the night, the rain record showed almost an inch of rain in an eleven minute period between 11:30 p.m. and midnight. During this same period when a warm front passed over BNL, the wind increased from 5 to 22 mph, and the barometric pressure jumped 3.38 milibars.

The intensity of this rainfall is best described by comparison to a previous rainfall rate study at BNL that showed the greatest probable rate to be  $\frac{1}{4}$ " in a six-minute period. The June 27th storm caused twice that amount of rain to fall.

Flooding on site was prevalent because of the saturated condition of the soil prior to this storm. Since June 1st, 18 days of rain had occurred with a total rainfall for the month of 4.24 inches. The average amount of rainfall for the normally dry month of June is 2.5 inches, or half of what we had this year.

## Pressure Recorders

7-318-68



John Hennessy of Plant Engineering and Planning inspects one of the many pressure recorders that are attached to fire hydrants throughout the site. The recorders will be gathering data on static pressures in the domestic water system until late fall. Analysis of the patterns of pressure will be used in a study of Lab water needs. Problems arising because of the installation of these recorders should be discussed with Hennessy on Ext. 7509. Photo by Humphrey

## Equal Opportunity Group In Second Year

7-112-68



Ric Villacara, Personnel, (right) is shown explaining BNL's Summer Program for non-scientific personnel to members of the Equal Opportunity Advisory Committee. New members appointed to the committee are: Ella McLean, Photography (left) and Margaret Hind, Applied Math (second from left). Harold Avent, Physics, (standing) is the new chairman of the committee which was formed last year to advise the Director of BNL on training, placement and recruitment of minority personnel. Other members of the group are: Walter Milian, Plant E & P; George Bryant, I & HP; and Louis Remsberg, Chemistry.

## Navy Lecture On Whole Body Counters

On July 17, at 7:30 p.m. in the Brookhaven Center, the Naval Reserve Company on site will hold a lecture and cocktail party. Dr. Stanton Cohn of BNL's Medical Department will be the speaker. His topic will be "Whole Body Counting."

The growth of the number of whole body counters is an indication of the need for a system for "in vivo determination of low levels of radionuclides." According to Dr. Cohn, if the present growth rate is maintained, 10,000 whole body counters will have been constructed by 1977.

5-446-68



Many applications of the counter have been made in the field of medical research and diagnosis because of the relative ease of measurement, the speed of determination and accuracy of results.

Dr. Cohn will discuss these applications, the improvements in technique and design, and other facets of the whole body counter.

Staff members and their ladies are invited to attend. The cost is \$3.00 per person. For reservations, call W. J. Schneider (Ext. 2970) or John Halpin (Ext. 7112).

## AEC and Contractors Win 8th Award of Honor for Safety

The Atomic Energy Commission and its contractors have received their eighth Award of Honor from the National Safety Council for their safety record in 1967 - the safest year in the AEC's 21-year history. The Award of Honor is the highest industrial safety award that the National Safety Council presents.

The injury frequency rate of the AEC and its contractors (The number of disabling injuries for each one million man-hours worked.) was 1.43 in 1967, down from 1.54 in 1966. Of the 41 industries reporting to the National Safety Council only one, the Communications Industry - whose 1967 rate was 1.40 - had a lower rate than that of the AEC. The average injury frequency rate for all industries reporting to the Council was 7.22 in 1967.

In 1967 the more than 130,000 AEC and contractor employees did not suffer a single lost-time injury from radiation causes. From 1947 to date, radiation injuries constitute less than one-half of one percent of the total number of injuries suffered.

## What's Your Guess?

7-2-68



A field of cotton? Low-flying clouds? A surprise snow storm in June? The billows of white foam that are blanketing the area from the Firehouse west to the Physics buildings are the result of a test of new foam generating equipment for use by the Fire Department. High winds on the day of the tests caused the foam to fly as far as the cafeteria, and caused many startled glances from on-site residents.

Photo by Humphrey

**006 Retires 5-3046-68**



Robert Brouwer, Staff Assistant with the Systems and Data Processing Division has retired after more than 21 years with BNL. Brouwer, who lives in Patchogue with his wife Dorothy, started work at the Lab in November of 1946, and has Life Number 006.

**Patrolman Retires 5-3045-68**



George L. McGann, a Patrolman in the Laboratory Police Force started work at BNL in March of 1947. He retired at the end of June after more than 21 years of service.

**Tennis Tourney Prelims Start Monday, July 15th**

Time is getting short! At this reading you will have 24 hours to register for any or several of the '68 tourney events. From past experience we expect heated competition in the Ladies Singles, Mixed Doubles, Men's Singles and Men's Doubles.

Don't forget "45ers" - the new '68 event - Senior Men's Singles. Minimum years young - 45. A contestant may enter both Senior and Open Men's Singles.

Registration deadline is Friday July 12th at 2:00 p.m. Register at the Recreation Office in the Gymnasium, 3 Center Street.

A fee of 50 cents per person per event must accompany each registration.

**Tennis Court Procedure**

1. The courts are not specifically scheduled or reserved and can be used on a first-come, first-served basis. However, when all courts are in use and others are waiting to play, matches should be limited and doubles played when possible. Courts will be reserved and scheduled by the Recreation Office only for the tournament finals.

2. The courts are specifically designed for tennis and should not be used for other physical activities except handball. Handball can be played, but only when court is not being used and when people are not waiting to play tennis. (In all cases, tennis shoes are a must.)

3. **Positively No Street Shoes** - The surface material is soft and damaged by any footwear other than tennis shoes.

4. **Net Care** - (a) Three foot at the center is the correct height. Please do not overtighten.

(b) Loosen net when not in use, and raise center of net off ground (Hook on bottom attaches to top cable).

5. Squeegees are provided for you to sweep off excess water.

Members of the Tennis Committee at the present time are: Andrew Kevy, James Brandon and Dan Schaeffer.

**BULLETIN BOARD**

Published Weekly for the Employees of Brookhaven National Laboratory

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*Public Relations Officer*

**Letters To The Editor**

Dear Sir:

In these parlous times, confronted as we are with budget cuts, race riots, an escalating conflict in Vietnam and sundry other depressing developments to lower our spirits, the letter from Disgusted in last week's Bulletin Board comes as a bitter blow. Now, our remaining source of uplift in this darkening world is under attack.

Is Disgusted unaware of the fact that the relative level of male morale is largely a function of the degree of escalation of the feminine hemline? I submit that a few crumpled vehicles on Brookhaven Avenue, some chowder spilt on the Cafeteria floor, are small prices to pay for such charming distractions.

Let any male with a few red corpuscles left arise to the defense of what we hope will become as much an American heritage as motherhood, apple pie, and the Mets. At Lexington and Valley Forge we have heeded the call in the past. Minimen, arise, aux armes.

Seymour Legge, Ph.D.

Dear Sir:

Tragedy has struck again . . . not in a distant place on the national scene . . . not because the individual was a public figure and a likely target, but rather on our own local scene to a youth while working a summer job to further his education.

The son of a husband-wife team of employees at BNL has been killed senselessly in another act of violence which might have been prevented had our gun laws some real teeth.

This is an appeal to one and all to write congressmen of choice and appeal for the strongest type of legislation for the control of firearms.

Dorothea R. Ripperger

**Here and There**

Dolores del Castillo

In April of 1967, while on duty with the U.S. Army, Joseph Niegocki (AGS) saw a young boy struggling in a swift running river. He immediately swam out to the boy who had already gone under the surface of the water at least once. He succeeded in bringing the boy to the shore, and applied artificial respiration until the boy's breathing returned to normal. Niegocki was awarded the U.S. Army Soldier's Medal and the citation read in part: "This unselfish and heroic act, performed quietly and modestly, undoubtedly saved the life of a 7 year old German national boy, and is in the highest tradition of the Military Service reflecting great credit on Specialist Niegocki and the U.S. Army."

On July 1, 1968 Niegocki was awarded the Bavarian Life Savers Medal by Klaus Curtius, German Consul General in New York, for his "heroic action in saving a human life under disregard of his own."

Loranus P. Hatch (NED) is the inventor of U.S. Patent No. 3,390,078 for "Separating Salts Having Inverted Solubility Curves" which was issued to the AEC on June 25, 1968.

Stanley Osher (Applied Math) was an invited participant at a conference on Finite Difference Methods for Initial Boundary Value Problems held at the University of Denver, June 24 through June 28.

Walter Hamilton (Chemistry) recently visited in Europe. While there he stopped at the Fritz Haber Institute der Max Planck-Gesellschaft in Berlin to give a seminar; at the Mathematical Institute in Oxford where he attended a Theoretical Chemistry Symposium; and at Cambridge where he gave an invited lecture at the International Union of Crystallography meeting on Accurate Determination of X-ray Intensities and Structure Factors. His talk was entitled "Comparison of X-ray and Neutron Diffraction Structural Results: A Study in Methods of Error Analysis."

Philip Coppens (Chemistry) also attended the International Union of Crystallography meeting. The subject of his talk was "Errors in the Calculated Structure Factors Caused by the Free-Atom Form." He was invited to give a lecture at the Neutron Diffraction Summer School held at Harwell following the IUC meeting.

Members of the L.I. Communications Association visited the Laboratory on July 10.

Elementary teachers participating in the Queens College Physical Science Workshop are visiting the Laboratory today and will tour the major facilities.

David Morgan of Rutherford will visit the Laboratory, July 15-17, for discussions on high energy physics theory.

An exhibit on power and fluid transmission will be held at the Exhibit Hall on July 24, from 9 a.m. to 4:30 p.m. All employees are welcome. 6-2310-68

**Accelerator Staffers Honored**



A small party was held in the Center Court of the AGS on Thursday, June 20, at which time Dr. G.K. Green awarded 10 and 20-year Service Awards to members of the Accelerator Department. Among the 10-year recipients shown in the picture above are: Top Row: Arthur Tranis, Frank J. Abbatiello, Robert E. Jackson, Otto Eisold, Theodore M. Hilgemeier, James Stafetas and Alan C. Guthke. Bottom Row: Carlyle Murray, Harold E. Knudsen, Eugene W. Rogers, Ross Meyer, Marie Gross, Robert P. Alvino, Vincent D. Racaniello and Adolph E. Densieski. Eugene S. Kaplan, John G. Schirmer and William P. Schirmer were not present. Twenty-year recipients shown in the picture below are: Top Row: Frank Janik, Malcolm M. McCrum, Leo H. Redmond, George W. Lija and Roderick D. Rohrback. Bottom Row: Alfred O. Ellis, Peter Augustinus, Bruno Wiedermann, Ernest D. Courant and Arthur C. Dick. Walter Sinuk and Charles N. Sponheimer were not present. 6-2311-68



**Arrivals & Departures**

**Arrivals**

Mendel Beer	Nuclear Eng.
Brenda M. Floyd	Biology
Gerhard Holm	Biology
Robert M. Hoyte	Chemistry
Marita D. Kane	Biology
Michael J. Kay	Accelerator
Joseph P. Kenneally	Purchasing
William H. Kropp	Nuclear Eng.
Jacqueline Larrie	Reactor
John C. McMullan	Accelerator
Ivan J. Muzinich	Physics
Betty J. Nolan	Personnel
Joel S. O'Connor	Biology
Karl E. Peterson	Central Shops
Robert L. Rowley	Physics
Dolores J. Seay	Chemistry
Tung-Chia Wang	Biology

**Departures**

Karl P. Baetcke	Biology
Robert H. Bassel	Physics
Louise Bell	Medical
Edward J. Bleser	Physics
Brian D. Boylan	Accelerator
Alberto G. Carlucci	Accelerator
Gad Feinstein	Biology
Jane B. Garron	Physics
James Z. Ginos	Medical
Richard D. Jenks	Applied Math.
Panayotis G. Katsoyannis	Medical
John A. Kochinsky	Accelerator
Henry Lee, Jr.	Personnel
Harvard Lyman	Medical
Monty J. Montjar	Medical
David C.L. Price	Physics
William D. Reuter	Accelerator
Gerald P. Schwartz	Medical
Robert L. Smith	Biology
Anthony C. Trakatellis	Medical
Richard S. Welsh	Physics
Yasusada Yamada	Physics
Robert E. Zider	Accelerator

BRUCE A. STYLE who had been on Military Leave of Absence since June 1966 returned to work in the Photo. & Graphic Arts Div. on July 8, 1968.

**333 - Fire Emergency**  
**444 - Police Emergency**  
**555 - Medical Emergency**

Dear Sir:

Roadmaps provide an interesting, and sometimes instructive, historical record of the inexorable changes wrought by man on his immediate environment.

Since 1962, here, at BNL we have lost forever seven small streets whose names once memorialized pioneers in science and technology. No longer do we have a Cartwright Place, Pascal Place, Herschel Place, Curie Lane, Cavendish Lane, Hertz Lane, or Humbolt Lane. These streets have vanished, to be replaced by buildings and parking areas.

Although Yale Road and Columbia Street have not disappeared, their names have disappeared from the map in the telephone directory. Now, Harvard Street has been bulldozed into oblivion.

It does not seem fitting that one of the nine founding universities should be treated so cavalierly. Therefore, I would like to propose a way to retain the name of Harvard on one of our streets. Since both Harvard and MIT share opposite ends of the same street in Cambridge, it would seem to me that they could share the same street at BNL. Why not rename the section of Technology St. which is north of Brookhaven Avenue? Harvard would then be north of Tech, on the same street, as in Cambridge. D.M. Schaeffer

**USNR Research Co. 3-9**

**Brookhaven National Laboratory**

Upton, New York YA 4-6262, Ext. 2910

**Drill Schedule**

For Quarter Ending 30 Sept. 1968

10 July

*Military Retirement*

Capt. J.S. Medd, USNR, Ret.

17 July

*Whole Body Counting*

Dr. Stanton Cohn, BNL

14 August

*Bubble Chamber Photography*

John Garfield

21 August

*Anechoic-shielded Test Hanger*

Capt. George Klaus, USNR

11 September

*Word Processing*

Lt. A.E. Risebrow, USNR

18 September

*Professional Development at Grumman*

Capt. D. J. Sheehan, USMC

# Argonne Mission Reactor Development

Argonne, Illinois - In the fall of 1965, a power failure totally blacked out the North-eastern part of the United States and the Southeastern portion of Canada. For many hours, residents of the stricken areas experienced, probably for the first time, life without electrical power. None will forget that period in which virtually nothing functioned; it was a dramatic example of the nation's complete dependence upon electricity.

The nation's - and the world's - need for power appears insatiable. Each year brings new devices and new processes which drink up electricity. At present, a large percentage of the power produced in this country comes from utility plants using the fossil fuels - coal, oil and gas.

Other aspects of our civilization make additional demands on supplies of fossil fuels. Heating our homes and factories, fueling our jet planes and our automobiles - these and hundreds of other needs require oil and gas and coal.

In spite of all this, there need not be a future energy crisis.

On the desert land 50 miles west of Idaho Falls, Idaho, near the eastern edge of a 460,000-acre site owned by the Atomic Energy Commission, stands a silver-domed nuclear power reactor. It is called Experimental Breeder Reactor II, and it was designed and operated by Argonne National Laboratory.

## Reactor Produces Fuel

Experimental Breeder Reactor II (EBR-II) is contributing to the technology of future breeder reactors because this reactor type "breeds" more fuel than it consumes - at the same time it is producing power. Even more important, the breeder reactor can convert our plentiful supply of uranium-238 into plutonium-239, the isotope of a man-made element which is an excellent fuel for reactors.

EBR-II is an experimental facility. It was built to discover and solve the problems involved in the operation of this advanced kind of reactor, now being used as a fast flux test reactor for the high-priority Liquid Metal Fast Breeder Reactor Program.

Reactor engineers are confident the "breeder" reactor will be perfected and available for commercial use before it becomes necessary to make use of both high cost fossil fuel and uranium reserves.

On July 17, 1955, history was made at Arco, Idaho, a small town near the National Reactor Testing Station. On that date, the lights of Arco blazed forth as usual when evening came - but there was a difference, even though not apparent. For the first time in man's history, the energy which provided Arco's illumination came from a nuclear reactor.

This "atomic furnace," designed by Argonne personnel, was called Borax II. It was one of several experimental reactors which led to the construction of the Experimental Boiling Water Reactor, the first experimental complete atomic power plant to go into operation. Today, many of the huge reactors producing power for private utility companies both here and abroad exist because of the lessons reactor engineers learned through the design and operation of Argonne's Experimental Boiling Water Reactor.

## Other Argonne Effort

These reactors represent only one facet of Argonne's diversified efforts to serve the nation. The development of reactors is a prime objective of the Laboratory, but Argonne also devotes major attention to other activities in a never-ceasing drive to increase man's knowledge of the world in which he lives.

To accomplish these tasks, Argonne employs a total of 5,700 persons at its main site near Chicago and at its Idaho site. The Idaho Division operates EBR-II and three other reactors at the AEC's National Reactor Testing Station. About 1,350 Laboratory staff members are scientists and engineers; the remainder carry out supporting tasks.

Work goes on in the fields of applied mathematics, biology, chemical engineering, chemistry, metallurgy, physics, high energy physics, radiological physics, reactor engineering, remote control engineering, solid state science, and electronics.

In one large complex of buildings on the Argonne site, scientists are able to send subatomic particles, much too small to be seen by the naked eye, racing around a ring under the control of huge magnets.



Zero Gradient Synchrotron

When the particles have attained very high speeds (which may be near the speed of light) they can be sent crashing into targets in the almost unbelievably complicated process of studying the "building blocks" of our physical world. The machine which accomplishes this is a 12.5-billion-electron-volt atom smasher called the Zero Gradient Synchrotron (ZGS).

The ZGS provides high energy physicists with a huge "microscope" with which to study the subatomic world; it has brought highly qualified scientists to Argonne from all over the world; it has strengthened the science departments of Midwestern universities by attracting to their faculties many high energy physicists, and it provides a new opportunity for their graduate students in this exciting field of science.

## Mechanical Hands

Today, nuclear scientists and engineers work routinely with radioactive materials. They utilize heavily-shielded enclosures called "hot" cells and handle materials through the use of manipulators - mechanical or electronic devices which allow an operator standing outside the cell to duplicate his hand movements within the enclosure.

Remote control devices such as these were pioneered by Argonne, and their development represented a major contribution to progress in utilizing the peaceful atom.

In the realm of basic research Argonne scientists helped provide one of the most dramatic achievements in the history of science. For more than 60 years, chemists believed that the noble gases - helium, neon, argon, krypton, xenon and radon - would not enter into chemical combination with other elements or with each other. It was thought that all other elements would form chemical compounds, but the noble gases would not.

Then, in 1962, a team of Argonne chemists, using a clue provided by a British chemist working in Canada, created xenon tetrafluoride; noble gases had combined, and every high school and college chemistry textbook in existence had to be revised.

## Pioneering Achievements

Other Argonne pioneering achievements in the realm of basic research include: key contributions to the shell model of the nucleus of the atom in all phases of its development; discovery and analyses of the roles of the hydrated electron and other short-lived fragments studied in radiation chemistry; research in "isotopic substitution" in organic compounds, including the first complete substitution of deuterium for ordinary hydrogen in living organisms.

These are only a few of the "firsts" which Argonne scientists and engineers have contributed to the welfare of society, and the big nuclear energy research facility continues to serve the scientific, academic, and industrial communities in countless ways.

Management of the Laboratory has been arranged to give maximum emphasis to the interaction between Argonne and the academic community. On November 1, 1966, a tri-partite contract went into effect in-



Remote Manipulators

volving the AEC, Argonne Universities Association (AUA), a corporation in which 26 universities hold membership, and The University of Chicago.

Under the contract, which is administered by the AEC's Chicago Operations Office, Argonne's programs and policies are formulated, approved, and reviewed by AUA. In accordance with these policies, the University of Chicago operates the Laboratory. Argonne's programs are funded by the AEC, which owns all of the Laboratory's land, buildings, and equipment.

A visit to Argonne reveals an exciting picture of scientists and engineers working at the frontiers of human knowledge and skills; seeking information about subatomic particles; studying the metals which must be formed into reliable and efficient components of nuclear reactors; probing the ways in which the atmosphere copes - or fails to cope - with the pollutants which are the by-products of our way of life; perfecting our knowledge of reactor technology and building the machines which will provide power for our grandchildren and great grandchildren; finding new ways to use computers in solving scientific problems; and using radioactivity as a tool in adding to our understanding of life processes.

## First Atomic Pile

Argonne traces its origin to CP-1, the first pile - the instrument with which Nobel Prize Winner Enrico Fermi and his colleagues created the world's first self-sustaining, controlled, nuclear chain reaction. This event took place under the football stands at the University of Chicago on December 2, 1942, at 3:36 pm, and ushered in the Atomic Age.



Film Scanning

The wartime code name, Metallurgical Laboratory, was used for the secret project CP-1. In 1946, Congress established the Atomic Energy Commission, and the AEC, in turn, converted the Metallurgical Laboratory facilities into Argonne National Laboratory, enabling many of the "Met Lab" staff to continue their efforts to master the atom.

Argonne has enjoyed steady growth during the two decades of its existence. Today, its facilities and equipment are valued at more than \$350,000,000 and its operating budget for research and development programs is over \$83,000,000 for the 1968 fiscal year.

However, the greatest assets of the Laboratory are its 5,700 employees working together to expand our knowledge for the welfare of mankind.

## Summer Pool Schedule

Open Monday through Friday  
12:00 Noon - 1:00 p.m. - Employees

1:00 p.m. - 2:30 p.m. - Children's  
Swimming Lessons

2:30 p.m. - 9:30 p.m.  
Employees - Family - Guests

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 any earlier than 15 minutes before their scheduled admission time. Children are to remain in the designated waiting area near the Pool's entrance until the Pool opens for them and when waiting to be picked up by parents. The Gymnasium will not be available for this purpose.

## Dollars and Sense

Leon Meshel

### The New Car Buyer by Frank Bloom

The automobile business, like every other business, has its fringe of unscrupulous dealers. There are two practices sometimes used to mislead or deceive the new car buyer - "low-balling" and "high-balling."

The dealer who quotes you a very low price at which he has no intention of making delivery is slipping you what the automobile industry calls a "low-ball." His offer is so alluring that he very often succeeds in taking you out of the market and you stop shopping around. This kind of dealer, in many cases, will actually provide you with a purchase order at the low-ball price.

When the time comes for delivery to be made, the dealer demands much more than the original low-ball price quoted. (It should be noted that the purchase orders of most new car dealers provide that the order is not binding on the dealer until accepted or approved by an officer or other authorized individual in addition to the salesman who takes the order.) Thus, after waiting weeks for delivery, you're faced with either paying the inflated price or cancelling your order (which may not be easy), and shopping and waiting for delivery all over again.

Two precautions against the above can be taken: 1. Make certain that your purchase order is approved by a properly authorized individual, and 2. Try to obtain an outside delivery date beyond which the purchase contract is void and your deposit refunded.

The practice of "high-balling" consists of giving you a fictitious trade-in allowance on your present automobile which is subject to "reappraisal" at the time of delivery. Then, when delivery is due, the dealer proceeds to reappraise your trade-in at a much lower price, thereby increasing the cash price of the new car.

Remember, if you are trading in your present car - first find out what the purchase price for the new car would be without a trade-in, then establish the dealer's book value for your trade-in. This will help you to determine if you are receiving a realistic trade-in price on your old car.

In all cases, remember that in shopping for a new car the "fantastic" deals at a price much lower than the average market should be scrutinized most carefully. Where possible, deal with a known, reputable dealer. Beware of dealers who indulge in misleading advertising practices (such as illustrations of one type of automobile with a featured price for a different model car printed below). Carefully weigh any claims for "lowest prices in town," etc. Most reputable dealers operate in comparable price ranges.

Watch out for illogical financing terms showing exceptionally low monthly payments. They may be part of a financing agreement that calls for a large final payment referred to as a "balloon" or "bumpier." It pays to shop for financing terms. There is sometimes even a difference between rates charged by banks, so don't be afraid to approach a bank for an auto loan.

Banks are in the business of lending money and will do so to anyone representing a reasonable credit risk. (BNL employees will find that they can borrow from the Peoples National Bank (on site) at a reduced rate arranged for by the Laboratory.) The same factors as above should be considered in obtaining auto insurance. There can be considerable savings resulting from "shopping" for auto insurance, rather than just accepting coverage offered by the dealer in a package financing plan. There are many dealers who make large commissions on the financing and insurance coverage they can sell; sometimes this profit exceeds the profit of the sale of the automobile.

## Three More Dances

In addition to our big seasonal dance which will be held in the Gymnasium on Friday, August 2nd, we have scheduled three small dances at the Recreation Building on the following Tuesdays -

July 23, August 6 and August 13. Next week's paper will give you all the details.

### 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.

**Theatre Tickets** - 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. Arrangements have been made with the Bellport Summer theatres to offer employees a 20% discount on tickets to their Gateway Playhouse for the Saturday 5:00 p.m. performance and to their Red Barn Theatre for Tuesday, Wednesday, Thursday, Friday, Sunday evening and Wednesday matinee performances. 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.

Gateway Playhouse - July 7 "Harvey" with Paul Ford; July 13 "Little Foxes" with Geraldine Page; July 20 "Gems of Burlesque" with Sherry Britton; July 27 "Black Comedy" with Dick Shawn.

Red Barn Theatre - Now through July 14 "The Apple Tree"; July 16-28 "Sweet Charity." Mineola Theatre - Now through July 14 "Hallelujah, Baby" with Diana Sands and Leon Bibb; July 16 through 28 "Harvey" with Paul Ford.

Wesbury Music Fair - Now through July 14 Buddy Hackett (no discount Thurs, Fri, Sat, Sun evenings); July 15-21 The Temptations (no discount Friday or Saturday evenings). Wedgewood Dinner Theatre - July 12 through August 25 "Irma La Douce."

Discount Exchange Coupons - May be picked up at the Recreation Office and mailed into Box Office of listed theatre.

Jones Beach Marine Theatre - Now through September 2 "South Pacific" (no discounts Friday and Saturday evenings).

### Locker Registration

Registration of all lockers in the Gymnasium-Swimming Pool complex expired June 30th. The Recreation Office has sent announcements of re-registration procedures to all last year's tenants.

If for some reason you did not receive yours, call Ext. 2808 for information. The deadline for re-registration has been set for July 12th.

## Classified Advertisements

#### Autos & Auto Supplies

66 DAF AMERICAN - 29,000 mi, 33 mpg, auto trans, good for summer student. Rose, Ext. 680.

TIRES - 2 used Pirelli Cinturato 1.65x14 radial tires w/tubes. \$5 ea. Ext. 7612, HR3-7951.

67 MUSTANG - 2 dr hdt, V8, std trans, ps, tilt steering wheel, tinted glass. \$1800. Mike, Ext. 7236.

60 RAMBLER AMERICAN - 4 dr, auto trans, r/h, good cond, needs rear universal. \$90. R. Butscher, Ext. 7483, PY9-6678.

5 NEW TIRES - 6 ply, 800x16.5, mounted on Ford truck rims, 8 lugs, \$200; 65 Harley Davidson, 50 cc, \$150. 924-3939 after 5 p.m.

SEAT BELT - Gray, never used, orig package. \$2.50. J. Conant, Ext. 2741.

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

ACCESSORIES - For MG Midget or A-H Sprite '58-'63, sliding side windows, seat cushion, conv top, tonneau cover. All for \$25. Ext. 7552.

66 PONTIAC TEMPEST CUSTOM - 4 dr sedan, r/h, auto trans, extras, 23,000 orig mi, excel cond. \$1600. F. Krieger, Ext. 7355, 732-5829.

### Get Wet!!

The 1968 BERA swimming program will start July 15th. Registration will remain open until class limits of 50 are reached.

Parents - please note: Children should have an early, light lunch. Girls must wear bathing caps.

Lesson time is from 1:00 p.m. to 2:30 p.m. Please do not drop children off at pool until 12:45. Parents of non-swimmers and beginners are encouraged to pick up children promptly at 2:30.

Children will pay admission of 35¢ each or show season ticket.

Friday pool special events will be posted and announced as they are scheduled.

Applications and additional information are at the Recreation Office - Ext. 2808.

### Softball

Tom Lee

**Brookhaven League** - In a great defensive game the Blue Jays with S. (Heavy Hitting) Garrett driving in the winning run in the seventh inning with a single, turned back the Old Timers 3-2. M. Gottfried hit a HR for the Birds. Medical and the Bubble Boys met in a double header with the cellar position of the League at stake. Medical won that position by dropping both ends of the double header 12-10 and 16-10. T. Erickson played an outstanding game at Short for the Boys. The Batmen continued to win, dropping the Dirty Sox 16-10 in a comedy of errors.

**Laboratory League** - The League is back to normal - AMD won 9-8 over the Deadwoods in a game that was all tied up at the bottom of the sixth and the Charlie Browns lost to the Sharks 20-7. AMD is the Lab's only undefeated team with that title almost going down the drain this week. The Mets vs. Converts game came out 35-4 in favor of the Mets.

**National League** - Results will be printed next week. The Rat Pack wishes to say good luck to Brian Boylan who is leaving the Lab. Brian has played ball in our program for the past seven seasons and was a mainstay for the Floorwalker/Rat Pack clubs.

48 OLDSMOBILE - 4 dr, V8, sedan. Best offer. E. Willen, Ext. 7308.

63 CHEVY II CONV - 6 cyl, stick shift, radio, hd shocks, Michelin radials, good cond. \$700 or best offer. Barnes, Ext. 2393.

63 VW SUNROOF - Red, new eng, brakes, tires muffler, excel cond. Asking \$600. Ext. 7162, AT6-9669.

TUBELESS TIRE & RIM - Continental 5.60x15, orig \$27.50, asking \$22; All State imported car battery, 36 mo guarantee, used 4 mos, orig \$18.50, asking \$12. 732-7195 after 4:30 p.m.

54 DODGE - 2 dr, 6 cyl, some rust but runs well. W. Metzger, Ext. 7793.

63 VW BUG - Excel cond. LT9-4630 after 6 p.m.

63 BUICK HDT - 1 owner, r/h, std shift, recently rebuilt trans, no known major ailments. \$70. 941-9256.

60 COUNTRY SQUIRE - Very good cond, tires under guarantee, many other new features. \$350. Ext. 7289, 281-3008.

61 STUDEBAKER LARK VI - 4 dr sedan, very good cond, low mileage eng. \$250. Ext. 7289, 281-3008.

57 PORSCHE - 1600 Normal coupe, clean interiors, eng runs great, body rusty. \$595. Evonne, Ext. 378, 296-3928 after 6 p.m.

63 VOLVO 1225 - 4 dr station wagon, dk blue, lug-gage rack, 60,000 mi, avail Aug. 9. \$1100. Warburton, Ext. 2218.

### Landlubber's Lexicon

With the boating season about to start, the *Bulletin Board* offers the following as an aid to understanding nautical terms in general use.

**Abaft**.....Taken Saturday night  
**Aftermost**.....Slow boat  
**Backwash**.....When you take abaft  
**Batten Down**.....Hit to the infield  
**Capsize**.....7 1/2  
**Cavitation**.....Cured with Crest  
**Celestial Fix**.....LSD  
**Chanty**.....Italian wine  
**Dismast**.....Relieved of duty  
**Ease Off**.....Stove cleaner  
**Figurehead**.....Mathematician  
**Fit Out**.....Expectorate  
**Galleon**.....Liquid measure  
**Gimbals**.....Doesn't tell Macy's  
**Hard Ale**.....Manner of eating  
**Hatch Cover**.....Chicken coop  
**Inshore**.....Take out a policy  
**Lanyard**.....Bernstein's first name  
**Launch**.....Noon repast  
**List**.....Speech impediment  
**Maritime**.....Wedding date  
**Mizzen**.....Not there  
**Outhaul**.....Yankee Stadium  
**Rudder**.....Prefer  
**Sheepshank**.....Leg of lamb  
**Shore**.....Of course  
**Slack**.....Half pair of pants  
**Slack Tide**.....Pants cleaner  
**Snatch Block**.....Foiled kidnapping  
**So'wester**.....Lady pig named Esther  
**Topsides**.....Grade "A" beef  
**Under Way**.....Subway  
**Undercurrent**.....Low voltage  
**Wharf**.....Dog talk

### Beachcombers Dance

The Supply and Materiel Division has volunteered to do the committee work for BERA and as a result we will have a Summer Dance in the Gymnasium on Friday, August 2nd. This one you can't miss - for two major reasons:

1. We have contracted for the Wayne Foster Orchestra featuring Frank Fields.

2. You won't have to get dressed up!! You save the date! The committee will give you all the details in future issues of the *Bulletin Board*.

#### Boats & Marine Supplies

WINDMILL SAILBOAT - Hand rubbed epoxy-fiber-glass finish, trailer, compl w/all fittings. \$700. 472-0215.

25' DAY CRUISER - Fully equipped, in water, ready to go, priced to sell, new eng, head, cushions, etc. 878-1561.

RADIO D.F. - Hammarlund (3-band). Operates 3 to 4 months on 6 flashlight batteries. \$75. (Value \$180.) R. De Matteo, Ext. 476 or 878-1975.

BOAT FENDERS - 2 pneumatic, canvas covered. \$40. (Value \$50. ea.) also 7' pulpit, mahogany grating, \$10. R. De Matteo, Ext. 476 or 878-1975.

#### Miscellaneous

STEREO - Finest professional system, AR, JZ, Dynakit, perfect cond. Sacrifice - best offer over \$400 or will sell separately. Ext. 2888.

2 BABY SEAT BELTS (HARNESSES) - For car, almost new. \$4 ea. Ext. 509.

CRAFTSMAN TABLE SAW - 8" blade compl rig, max 3 1/2" cutting height, excel cond. \$100. Ric, Ext. 2100, 286-0405.

AUTO CLOTHES WASHER - Westinghouse, front load, 9 yrs old. 929-4714. \$25.

ELEC ICE CREAM FREEZER - Used once, makes 4 qts, Sears "Maid of Honor." Orig cost \$19, sell for \$10. John, Ext. 2148.

HALLICRAFT RECEIVER - Model S-94 Mark II, 30-50 megacycles, variable tuning, incl the Suffolk County Fire Band. Make offer. Becker, Ext. 383, HR2-0832.

COLEMAN CAMP STOVE - 2 burner, good cond. \$10. Geo., Ext. 657, 588-2328 after 6 p.m.

TUBE & TRANSISTOR TESTER - EICO #666, dynamic conductance. Orig \$109, make offer. E. Bihn, Ext. 7631.

SILVER POODLES - Toy, male, AKC, Sassafras line dam & sire, ready to go. F. Merkert, Ext. 7639, 732-3003.

SURFBOARD - 9 1/2', used only 2 wks. \$80. Ext. 7552, 286-3310 eves.

GROUP OR INDIVIDUAL TUTORING - In English as a foreign language, meet at Lab, hr to be arranged. N. Walter, 744-8698 after 6 p.m.

BABY CARRIAGE - Biltrite, full size, converts to car bed, like new. E. Bihn, Ext. 7631.

HEATER - Coleman 5000 BTU, excel cond. B. Johnson, Ext. 573.

SURF CASTING FISHING POLE - 9 1/2', brand new, only been used once. \$10. Tony K., Ext. 560.

TUTORING - Licensed teacher will tutor elementary subjects or high school English in my home in Patchogue. GR5-5789.

### Rally Results

"Confusing But Amusing" ended up at the MacArthur Hotel in Bohemia on Sunday, June 30th. Trophies were awarded by rallymasters Bruce Fisher, Ricky Fanny, Jill Jones and Carol Rowe to the following enthusiasts:

First Place - John Gennaro and Nick Campanozzi in a 1961 Chevy with only 4 points;

Second Place - Joan and Rudy Becht in a 1963 Chevy II (instead of their usual Volks) with 14 points;

Third Place - John Minutaglio and Lynn Kobbe with 28 points in a 1967 MGB.

Dead Last was taken by Art Perlman and Susan Fix in a 1967 Mustang with a grand total of 1488 points (out of a possible 1500).

### BERA Film Series

Thursday, July 18 - 8:00 p.m. - Lecture Hall

#### An Evening of Erotic and Sensual Cinema

The evocation of sensual and erotic themes through cinematic techniques is as old as the art of film itself. Because of censorship and rather short-sighted attitudes, films dealing with sensual themes have generally not been available through legitimate channels. We have secured a cross-section of short films, all dealing with erotic and sensual ideas. Of course, what one person sees as erotic may bore the next and scandalize a third. We present these films for your personal critique. Obviously, this is a program for the mature-minded adult only. Please note that this is a completely different group of films than those presented under this theme last year. While last year's group were of a symbolic nature, these are more explicit in their exposition of the theme. Since we cannot permit standees, please come early for seats.

-Harvard Lyman

Movie Tonight: 1812 and I Miss You So.

MAPLE SETTE & 2 CHAIRS - For TV rm, \$20; Craftsman jig saw (lg); Youngstown sink, cabinet & faucets. GR5-8426.

HEATHKIT SB301 RECEIVER - W/speaker, AM & SSM filters, like new, 8 mos old, \$26; Lafayette HA-410 10 meter transceiver, \$100. C. Zein, Ext. 7316.

#### Houses

PT JEFFERSON STATION - 4 bedrm high ranch on 1/2 wooded acre, liv rm, din rm, panelled kitchen & den, 20' din deck, laundry rm, dble garage, 2 baths, s/s, w/w carpet. \$20,500. HR3-9180.

E. PATCHOGUE - Brick cape cod, nice area, 4 bedrms, 1 1/2 baths, separate din rm, full basement, 75x220 lot. \$14,000. AT6-8517 after 5:45 p.m.

#### For Rent

BELLPORT VILLAGE - 4 rm 1st floor apt, rear porch w/entrance to garage, all util, presently avail. D. Sheedy, Ext. 2588, AT6-8451 after 5 p.m.

FURN ROOM - In 3 bedrm house, avail immediately. \$47/mo + sm util charge. M. Strongson, Ext. 2727; L. Padwa, Ext. 2441.

#### Wanted

TO RENT - 2 or 3 bedrm house in Wading River or Shoreham beginning May '69. F. Gonzalez, Ext. 7220, 744-8689.

ON-SITE MOTHER - Or responsible teenager to care for 2 well-behaved boys (6, 7) 11:30 a.m. through lunch & possibly afternoons Mon-Fri Metzner, Ext. 2341.

HELP - More knitting wool needed, 60 more pairs to make to reach our goal. Carol & Betty, Ext. 7205; Betty, Ext. 386.

HOMES - For 2 kittens, tiger colored, 2 mos old. Ken, Ext. 7130; Mrs. F. Wenger, 286-9053.

TYPING - Term papers, etc., to do at home. Claire, Ext. 2131, 281-9034 after 5:30 p.m.

VOLUNTEERS - For Summer Head Start program in session July 8-Aug. 23, Mastic Beach. Mrs. Chase, 878-2524.

HANDYMAN - M. Strongson, Ext. 2727.

ENLARGER - M. Strongson, Ext. 2727.

HANDYMAN - Lawns, painting & general home maint, dependable & experienced. 732-7195 after 4:30.

FAMILY - To adopt a kitten, black & white, 1 grey & white. Ann, Ext. 456.

RELAXACIZOR - Good cond. 334-6476.

#### Lost & Found

FOUND - Men's wrist watch, black leather strap, in vicinity of HFBR. Ext. 394.

#### Classified Ad Policy

Deadline is 12 noon Friday for publication the following Thursday.

1. The *Bulletin Board's* classified section may be used only by active and retired Laboratory employees.

2. All items for sale or rent must be the advertiser's property.

3. 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.

4. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.

5. Ads should be restricted to 20 words or less and typed

or printed on the form provided, and must bear the employee's signature.

6. Ads not carried because of space restrictions will be held for publication in the next issue.

7. Ads are run only once and must be resubmitted if they are to be repeated.

8. Firearms offered for sale or trade may not be brought on site.

For Sale: Auto & Auto Supplies  
 For Sale: Boats & Marine Supplies  
 For Sale: Miscellaneous

For Sale: Houses  
 For Rent  
 Wanted

Carpools  
 Check  the heading applying to your ad.  
 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