

# BULLETIN BOARD

Volume 21, Number 40

October 12, 1967

## AGS Conversion Job Is Lecture Topic

On Wednesday, October 18, at 8 p.m. in the Lecture Hall, Dr. G.W. Wheeler will present the 69th Lecture of the Brookhaven Lecture Series. The subject of Dr. Wheeler's talk will be "The AGS Conversion Project."

George W. Wheeler is the head of the AGS Conversion Division in the Accelerator Department. He came to Brookhaven three years ago after ten years on the staff of the Physics Department at Yale University. While at Yale, he had taken a major part in the design, construction, and operation of the Heavy Ion Linear Accelerator. Following that he headed the Accelerator Design Study Group which made the preliminary studies of a 750 MeV linear accelerator Meson Factory.

Dr. Wheeler graduated from Union College in 1949 after serving as an infantryman in Europe during WW II. He did his graduate work at Yale, receiving a Ph.D. in nuclear physics in 1953. Following this, he spent a year at the Woods Hole Oceanographic Institution before returning to Yale.

The lecture will describe the AGS Conversion Project which has been funded by the USAEC. This project, the largest single facilities construction project ever undertaken by Brookhaven, will raise the intensity of the AGS to five times the present protons per pulse and will greatly expand the experimental utility of the accelerator. Some of the operating features of the present machine will be discussed in order to show what modifications are needed. The major features of these modifications will be presented.

A buffet supper will be served at the Brookhaven Center before the lecture from 5 to 8 p.m. Reservations should be made in advance by calling Extension 2453 before 5 p.m. on Tuesday, October 17. Refreshments will be available in the Exhibit Hall after the lecture.

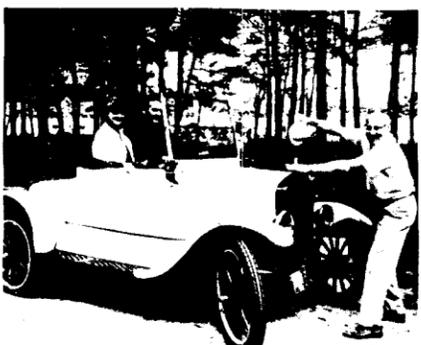
## Bio-Med Directors Visit Brookhaven

On October 9 and 10, the Bio-Medical Program Directors of the AEC met at Brookhaven. As is customary, the scientific program of the meeting was provided by the host institution.

Presentations were made by members of the Medical, Biology and Instrumentation and Health Physics Departments. Dr. John Totter, Director of the Division of Biology and Medicine of the AEC conducted the business sessions of the meeting on Tuesday afternoon.

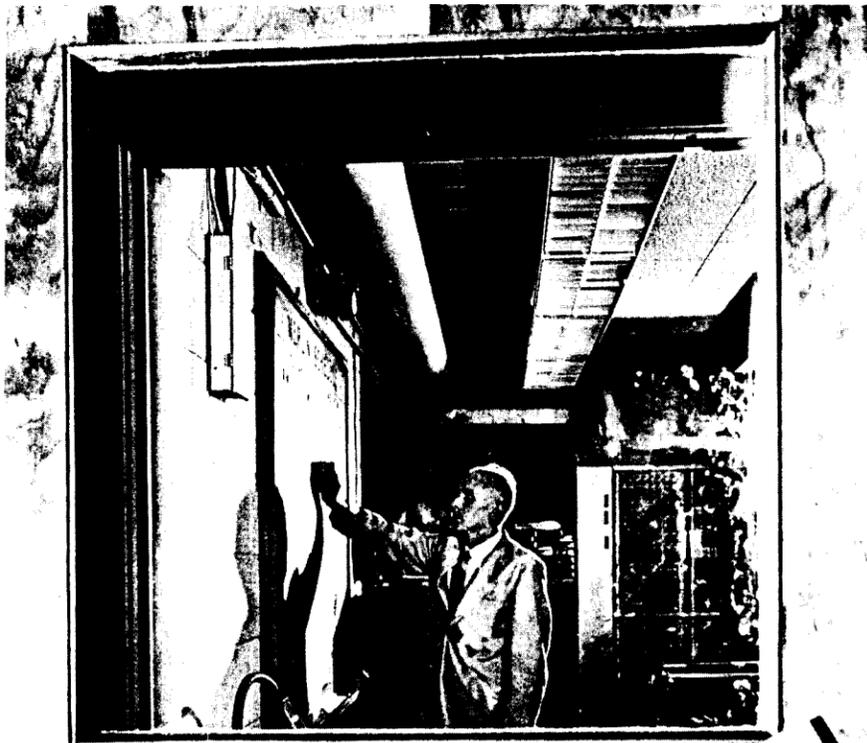
Approximately 50 Bio-Med Directors from AEC installations all over the United States attended. The next meeting of the group will be held at the Argonne Cancer Hospital in Chicago, Illinois in February.

## Picnic Fun . . .



The Annual Picnic of the Building Maintenance men was attended this year by about 150 people including those pictured above. Pete Mercier and his wife Doris drove all the way in their yellow 1924 Model T Ford. George Wagner is shown filling the radiator of the antique with . . . would you believe water? The picnic was held in the recreation area near the softball fields on September 23.

## Merlin Retires . . . 10-11-67



Lloyd Davis of the Physics Department is shown cleaning off the scheduling board at the Merlin computer facility. Davis, who has been with Merlin since it was conceived in 1957 shut off all power to the computer on Wednesday afternoon. The Counter Research group of Physics, under Dr. S. J. Lindenbaum used Merlin in 1962 to perform the first on-line computer experiments.

Photo by Humphrey

## Many Cultures or One

Note: The following, the second in our series of guest editorials, is a reprint of an article entitled "Many Cultures or One," by W. Deming Lewis, Ph.D., President of Lehigh University, that appeared in the June, 1967 issue of *Medical Opinion & Review*. The Bulletin Board thanks both the author and the publication for permission to reprint.

Today we find that the nuclear physicist cannot talk with the solid-state physicist. The student of management science has difficulty communicating with the student in the related field of operations research. The Emerson romanticist and the Dreiser naturalist cannot understand each other's writings. And in the medical field there are so many specialties within specialties that, as someone recently observed, the otolaryngologist may soon specialize in the right or left nostril, the right or left ear.

As C.P. Snow sees it, the intellectuals of the world have divided themselves into two camps - the scientist and technologist versus the humanist and scholar. In his influential book, *The Two Cultures*, Snow focused attention on the difficulty of communication between the scientist and the nonscientist.

The continued widening of this breach forces us to regular reassessment of the problem - to ignore a problem of communication is obviously to compound it. Snow's thesis is immensely important, but his development of it is too limited. The essential problem is that our cultural values have ossified as we have raised false barriers and built subcultures and sub-subcultures. The boundaries between them are arbitrary and probably unreal.

The accelerated acquisition of scientific knowledge has propelled mankind to an age in which anything seems possible, and it has carried us at a speed so great that one increasingly knows tomorrow will bring greater wonders, and with them greater worries. During the past one hundred years many mysteries have been solved. The accelerated rate at which scientific knowledge has been expanded and applied is illustrated by the following analogy.

If man's time on earth - roughly a million years - could be compressed into one day, then it was about five minutes ago that someone invented the wheel, and perhaps ten or fifteen minutes ago that we dropped the hunting club and fashioned a stick with which to till the earth.

Four minutes ago we invented writing, and our civilization began. Only three minutes ago Hippocrates started his practice. Two minutes ago men learned to navigate the oceans. Half a minute ago the steam engine was born, and along with it, the Industrial Revolution.

Less than ten seconds ago the telephone, the electric light, and the automobile were invented. About five seconds ago the first airplane left the ground at Kitty Hawk. Two seconds ago nuclear power was discovered. And in the last second, incredible momentum has gathered to force man into a far deeper understanding of the complex realms that surround him.

"The planet belongs to our species," I heard Frederick Seitz, president of the National Academy of Sciences, assert. "The spectrum of tools that we have at hand to explore and utilize it are already so vast, at least on the physical side, that few genuine mysteries concerning the physical constitution will be left in another century. In fact, the degree of control over our planet which we are developing promises to be so far-reaching that it now is high time that we accept appropriate responsibility for using this control in the manner of a wise and loving gardener."

Dr. Seitz also forecast that man will shortly take possession of the solar system. It is evident that soon we will engage the full power of uranium and thereby have all the energy society needs for whatever ambitions it may have. Knowledge of biological phenomena is

(Continued on page 2)

## Industrial Traffic Group To Meet Here

On October 17 and 18 BNL will play host to the 1967 meeting of the Industrial Traffic Group. Richard N. Hill, Traffic Administrator of BNL, will chair the conference that will be held in the North Room of the Brookhaven Center.

The meeting at BNL is the third for the organization. The first meeting in 1965 was held in Los Alamos, and the second in 1966 at Oak Ridge. All those attending are concerned with the interpretation and implementation of regulations governing the shipment of radioactive as well as other materials.

After a welcoming address by Assistant Director William J. Catacosinos of BNL, the conference will hear several papers presented by members, and then have a showing of the *Brookhaven Spectrum*. On Wednesday afternoon, the group will have a short tour of BNL's research facilities. The last order of business will be the selection of a new chairman for the year 1968. Fifteen papers in all are expected to be presented before the meeting closes late Wednesday afternoon.

Representatives from Traffic Departments of most of the AEC contractors in the United States will attend this conference.

## Rabi Named Winner Of Bohr Gold Medal

The Danish Engineers Association has announced that Dr. I.I. Rabi, of Columbia University, has been awarded a Niels Bohr Gold Medal. This award is given every three years for achievement in the peaceful uses of nuclear physics.

Dr. Rabi has been a part of BNL from its beginning. An AUI Trustee since 1946, he was President of AUI in 1961-62, and then Chairman of the Board until 1966.

A former member of the General Advisory Committee of the AEC, member of the President's Scientific Advisory Committee, member of the Scientific Committee of NATO, member of the IAEA's Scientific Advisory Committee, Dr. Rabi's scientific career has been studded with honors for his brilliant work. The AAAS prize for study of radio frequency spectra of atoms and molecules; the Elliot Cresson Medal of The Franklin Institute; the 1964 Nobel Prize for Physics; the Medal of Merit; the King's Medal (British); the Legion of Honor (French); the Order of the Southern Cross (Brazilian) are only a few.

Established in 1955, the award has been given to Niels Bohr, Sir John Cockcroft, George de Hevesy, the last award having been given to Piotr L. Kapitzin in 1965.

As Dr. Maurice Goldhaber put it, "Dr. Rabi is being honored not only as a great scientist and a great teacher of science, but also as a statesman of science whose counsel is sought throughout the world."

## Andre Maurois, 82, Pegram Lecturer, Dies

The French biographer, historian, and author who was to be the 1967 Pegram Lecturer at BNL died on Monday after undergoing surgery in Paris.

M. Maurois was to have spoken at the Laboratory on "The Illusions." His three-part lecture would have explored "The Illusions of the Senses and the Sentiments," "The Illusions of the Intellect and of Science," and "The Illusions of the Fine Arts."

Maurois was born Emile Herzog July 26, 1885, and took his pseudonym when he began to write in 1914. During World War I he went to Britain and joined the Lennox Highlanders Regiment in 1915. After the war he wrote biographies of Shelly, Disraeli, and Byron.

Before World War II he wrote biographies of Voltaire, Edward VII, Chateaubriand, and Chopin. Afterwards he composed histories of Britain, the United States, and France. Other historical works compared the United States and the Soviet Union. At the beginning of World War II he fled occupied France and went to Britain and later to the United States.

Maurois lectured and taught at the University of Kansas and at Princeton. Before returning to France in 1946, he published a French-language weekly newspaper in New York City.

He is survived by his wife, the former Simone de Caillavet, and three children from his first marriage. Maurois was noted for being the leading interpreter of France to the Anglo-Saxon world.

**Here and There**

Dolores del Castillo

Joseph R. Steimers (Health Physics) will attend the AEC 13th Annual Bioassay and Analytical Chemistry Meeting at Berkeley, California, Oct. 12-13.

Beatrice Kohler (Personnel), Roberta Howe (Systems & Data Proc.), Irma Carl (Design & Construction), and Wilma Flannery (DO) recently attended the AMA Executive Secretarial Seminar in New York.

Jack Chernick (NED) addressed the student body and faculty of RPI on Oct. 9. The subject of his talk was "Recent Reactor Physics at BNL."

J.D. Livingston, of the General Electric Laboratories for Research & Development, will address the Colloquium on Structure and Superconductivity to be held Oct. 12, sponsored by the Dept. of Materials Science, SUNY at Stony Brook.

On Oct. 13, Alan Draycott, Australian Consolidated Industries, Ltd., will visit at the Laboratory. His prime interest is in chemonuclear polymerization.

Arthur G. DaSilva, Brazilian National Nuclear Energy Commission, will visit the Laboratory on Oct. 16 for discussions on germanium detectors.

Professor N. Kato, of the University of Nagoya and Bell Telephone Laboratories, will lecture on Thursday, Oct. 12, on "Determination of Structure Factors by Means of Pendellösung Fringes", here at the Laboratory.

Robert Lehn (Central Shops) and Richard Hill (Purchasing) will be at the Defense Industrial Production Equipment Center in Memphis, Oct. 8-12, regarding surplus equipment for the Laboratory. Following the Memphis visit, Lehn will go on to Oak Ridge National Laboratory to inspect their Shop facilities.

Ernest Courant (Accelerator) spoke on The 200-BeV Accelerator Project, Oct. 11, at SUNY at Stony Brook.

The L.I. District Home Economics Association will tour the Laboratory on Oct. 12.

O.E. Dwyer, D.H. Gurinsky, and F.T. Miles (all of NED) will attend the Semi-Annual Information Meeting on the Molten Salt Reactor to be held in Oak Ridge, beginning Oct. 19.

William S. Hillman (Biology) presented a paper at the meeting of the Northeast Photo-biology Group at the New York Blood Center in New York City on Oct. 6. The title of his paper was "Photomorphogenesis, etc."

George M. Woodwell (Biology) has been appointed a Member of the Board of Trustees of the Environmental Defense Fund.

**Arrivals & Departures**

**Arrivals**

- Mulki R. Bhat.....Nuclear Eng.
- Anne-Marie Cnops.....Physics
- Fern M. Cohen.....Physics
- Robert McAllister.....Accelerator
- Robert A. Schiff.....Accelerator
- Walter S. Sieminski Jr.....Applied Math
- William C. Venegas.....Accelerator

**Departures**

- Robert A. Boley.....Accelerator
- John N. Castro Jr.....Mech. Eng.
- Charles M. Hall.....Reactor

**What's New?**



The photo above shows some of the work being done in the Fiscal Building at 37 Brookhaven Avenue. The remodeling will provide additional office space for the administrative staff of Plant Engineering and Planning.

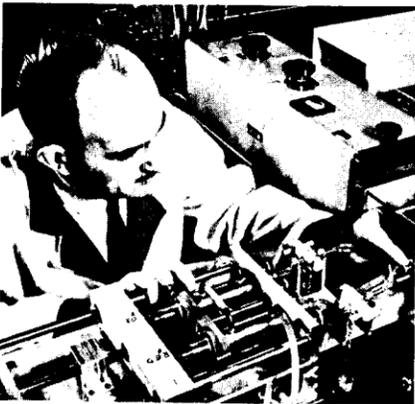
**Many Cultures**

(Continued)

still narrow. Nature needed three billion years to evolve to its present state, while man has had but generations to develop his limited understanding of life's processes.

Obviously, in an age when we can emphatically declare that "the planet belongs to our species," we must never forget that the one attribute enabling man to penetrate beyond the physical restraints of his surroundings is his creative mind. However, our world of cultures and sub-cultures has developed a shortage of persons with matured creative gifts - those who dare depart from or advance beyond what is conventional.

Jerome Wiesner, when he was science adviser to President Kennedy, established that an astonishingly small number of working scientists are responsible for the research leading to solutions of mysteries in this century. He suggests that the short supply of creative minds demands a review of what is now being taught, with the aim of "... enhancing the creative ability of students and of developing skills which might remain productive longer, but also a consideration of what the educational system can contribute to the academic updating, from time to time, of the specialists it has already produced." 7-406-66

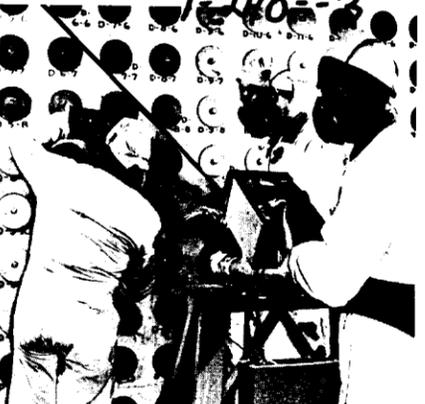


Engineering is becoming an important complementary discipline for medical students. The heart pacer utilizes transistors, as do the electrostethoscope and the electrocardiograph. Laser beams are employed in eye surgery. Sonar beams are used to detect internal lesions. Even DeBakey's famed mechanical heart works on the principle of the dredge pump.

Research on the flow of blood is not unique, but such research conducted by the department of civil engineering is. Relatively few quantitative studies of the circulatory system have been made, I am told. Little is known about exactly how phase separation occurs. Discovery of ways to control such processes in the organism might lead to relief of certain circulatory ailments.

Medical scientists and engineers are more frequently using the same tools - for example, the electronic computer. To carry out one million simple mathematical calculations, such as multiplication, would cost twelve and a half thousand dollars if done by a person using a desk calculator, but only twenty-three cents if performed by the most modern computer. Similarly, the electron microscope is as valuable for exploring the physician's world of cells and viruses as for investigating the engineer's world of materials.

Knowledge of the physical sciences has given man the means to control his planet and to reach toward control of the solar system. To this day, almost every great scientific achievement of the past hundred years - ranging from those in the most abstract of mathematics to others in atomic and nuclear physics - has been put to practical use by engineers and technologists. But the understanding of life begs further exploration. We can see no limits to the social and scientific possibilities of the disciplines searching into the structures and processes of organisms, including, of course, man. 12-62-61

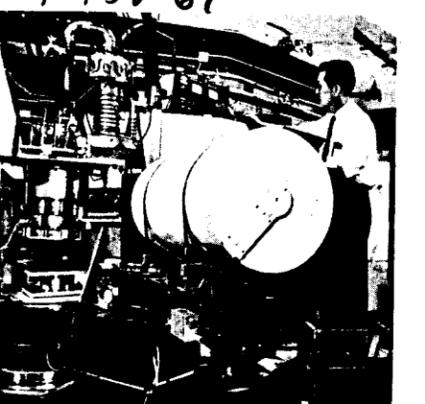
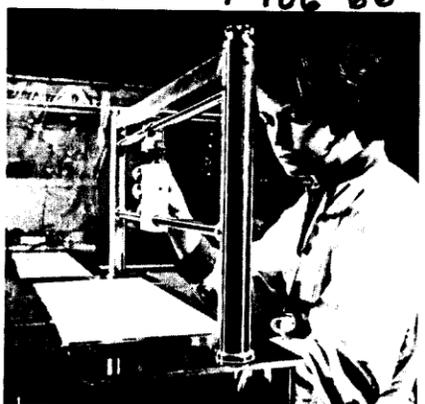


Yet, one must question, as the costs mount, whether all fields of science will continue to yield new useful harvests. I see no chance that all science and technology will be abandoned in the foreseeable future. Our civilization would retrogress beyond repair. The truth is that science and its application have become a permanent part of our heritage. Is there then a discernible limit to the amount of productive research that can be done?

Currently, three percent of the United States' gross national product is spent on research and development. During the past two decades of unprecedented expansion in research and development, expenditures have doubled roughly every five years. R and D now costs more than nineteen billion dollars annually, of which over fifteen billion dollars is provided by the Federal Government. Approximately seventy percent of the funds are spent for defense and space exploration needs; the remainder for studies of health, natural resources, transportation, and education. As a consequence, we have greatly expanded our understanding of the physical world and extended the capabilities of our technology.

The boundaries of our scientific knowledge recede endlessly. The more one explores, the more one learns. The more that is learned, the more that is questioned. It would appear that the cycle may be limited only by the willingness of the country to provide funds. But ultimately, so long as we have highly trained persons who will work creatively across and beyond the artificial and arbitrary barriers and providing we are able to see the beauty and the necessity of solving the mysteries of the universe, we will be able to push back the limits.

Our scientific horizons are not narrowed by lack of money - they are dimmed by a shortage of persons willing to be concerned with total perspective, able to transcend the provincialism of the mind and to recognize that human destiny will best be served when many cultures become one. 4-138-67



**BULLETIN BOARD**

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Public Relations Officer

**Service Awards - Oct. 1967**

**Twenty Year**

- Rebman, James.....Accelerator
- Manowitz, Bernard.....Nuc. Engrg.
- Love, Robert A.....Medical
- Bieselin, Harry.....Supp. & Mat.
- Eriksen, John T.....Plant Ops. & Maint.
- Wicks, Stanley H.....Plant Ops. & Maint.
- Hansen, Edward.....Plant Ops. & Maint.
- Rubinson, William.....Chemistry
- Williams, Warren.....Reactor
- Benedict, William.....Reactor
- Taylor, Ralph P.....Plant E. & P.
- Simack, Paul.....Photo & G.A.
- Tucker, Walter D.....Nuc. Engrg.
- Hicks, Harold.....Supp. & Mat.
- McChesney, Harvey, Jr.....Accelerator
- Lindgren, Robert.....Physics
- McCafferty, John T.....Accelerator
- Small, Maxwell.....Plant E. & P.
- Hammond, Clarence A.....Directors
- Homan, Marjorie K.....Physics
- Kane, Alfred W.....Physics

**Ten Year**

- Bowers, Robert.....Supp. & Mat.
- Elsik, William.....Shops
- Foster, Frank P.....Accelerator
- Groobert, Irving.....Supp. & Mat.
- Grover, James R.....Chemistry
- Monaghan, Robert L.....Accelerator
- Smol, Robert.....Nuc. Engrg.
- Starke, George W.....Accelerator
- Thiessen, Charles J.....Accelerator
- Van Steenberg, Arie.....Accelerator
- Wilson, Robert G.....Nuc. Engrg.
- Windschauer, Ernest.....Physics

**It All Started With Mrs. O'Leary's Cow**

Fire Prevention Week marks the anniversary of one of America's worst conflagrations, the Great Chicago Fire of October 9, 1871. In that fire 250 persons were killed and 17,430 buildings destroyed.

The effect of a destructive fire can leave an imprint on lives long after the event. This year's Apollo fire suspended the activities of a \$23-billion program during the extensive investigation and may have jeopardized a national goal to land men on the moon by the end of the decade.

The 1967 Chicago McCormick Place fire had a major effect on the economic life of the nation's second largest city from which it may take years to recover. The Cornell University dormitory fire in April resulted in the death of 9 students, and serious injury to several of the other 60 occupants.

These well publicized fires are just examples of 2.4 million recorded fires in the United States each year. Although technology has not advanced to the state where major fires can be totally prevented, sufficient experience has accumulated so that the effects of these and most other fires could be greatly minimized.

BNL has a high standard of fire safety which depends not only upon the activities of the personnel directly assigned responsibility for various phases of BNL's fire protection program, but more important, upon the continued vigilance of all employees. Only when everyone actively participates in this program can tragic and unwanted fires be avoided and the hurts of fire significantly reduced.

**Musicians Wanted**

The Patchogue Village Concert Band invites all musicians, amateur and professional, to play with them every Wednesday evening, from 8 to 10 p.m., at the Four Sisters Community Center. The Center is located at 96 South Ocean Avenue, Patchogue. For further information, those interested should call Joel Sands, Director of the Band, at AT6-8962.

## Wet Suits Heated By Radioisotopes

A radioisotope-powered swimsuit heater for divers, developed by the AEC in cooperation with the U.S. Navy, is scheduled for delivery in early October to the Navy Facilities Engineering Command for systems integration by that command. It will undergo preliminary testing at the U.S. Naval Civil Engineering Laboratory, Port Hueneme, California, and the Naval Medical Research Institute, Bethesda, Maryland.

The heater, fabricated by AEC's Mound Laboratory at Miamiburg, Ohio, will undergo deep-sea feasibility tests later in the Navy's SeaLab III experiment off the coast of Southern California.

The device, for which AEC is seeking a patent, warms a garment of the "long john" type worn under the diver's suit. The undergarment was developed by the National Aeronautics and Space Administration for astronauts. Tiny plastic tubes woven into the garment circulate hot water to all areas of the diver's body.

The water is warmed in a bottle-shaped heat exchanger, 10 inches long and four inches in diameter, which contains about 4 capsules of plutonium-238 fuel. The fuel capsules provide about 105 watts of heat each. A battery-pump assembly to circulate the heated water is contained in a separate pressure chamber 6 inches by 6 inches by 3 inches. The system is built mainly of aluminum and polyvinyl-chloride. The heat exchanger and the pressure chamber are attached to the outside of the wet-suit.

Radiation from the fuel is sufficiently low to allow the diver to carry out normal work assignments without hazard.

SeaLab III, the third open-ocean phase of the Navy's man-in-the-sea program, will begin next spring. Navy aquanauts, working near their undersea habitat at ocean bottom depths ranging from 430 to 600 feet, will carry out experimental salvage techniques, oceanographic and marine biological research and a series of physiological and human performance tests. SeaLab III will remain submerged 60 days. Five teams of aquanauts will take part in the advanced ocean engineering experiment, each team remaining on the sea bottom for 12 days.

## Fish Tales

by John Tagliavia



The "pram" brigade, sitting about 1/4 mile out at the "tides" at Rocky Point, has a large school of bass surrounded. The fish can be seen on most calm evenings churning up a froth inside a ring of one-man boats. Unfortunately, the bass don't know enough to surrender and are proving quite hard to catch - rubber eels are fairly effective.

At Montauk, bass in the 10-20 lb class are being taken at the "Elbow" about a mile east of the light. There are large schools of small bass along the shores but this "observer" found them rather elusive. There seems to be a lack of bait-fish along the south shore and the bass are feeding on sand shrimp.

Bob Foukal caught his first bass Saturday, a four-pound "monster." Congratulations! If you see a local tackle merchant with a big smile on his face, Bob is probably not far away - carrying a big bag of shiny new lures.

## BERA Film Series

Thursday, Oct. 19 - 8 p.m. - Lecture Hall Salto

This strange, surrealistic drama, directed by Tadeusz Konwicki, starring Zbigniew Cybulski, features a very different and quite forceful role for the star of "To Love." It is a story of a haunted man who arrives in a small Polish town and through a series of strange events, including the seduction of his host's daughter, casts a spell over the townsfolk. His seemingly hypnotic control over the people leads to a sudden and shattering climax. A film featuring a maddening clash of symbols worth pursuing.

### Short: Ragamuffin

An exceptionally well made Polish visual poem telling in image and music the story of a small boy, his dreams and disappointments. —Harvard Lyman

No Movie Tonight.

## Guarneri Strings Are Well Received

This year's Concert Series opened last night with a performance by the Guarneri String Quartet. They were superb and did not disappoint their audience.

The next concert, on Nov. 9, will feature the flawless team of Jean-Pierre Rampal, flutist, and Robert Veyron-Lacroix, pianist. Rampal is a master flutist with an excellence of tonal shading and phrasing. Veyron-Lacroix is a worthy partner in perfect balance with the flute.

Making their 12th visit to the U.S. this year, the three Brothers Pasquier will perform at BNL on Dec. 5. Each the master of his instrument, Jean and Pierre are violinists and Etienne, a cellist. The Philadelphia Inquirer calls theirs an "incredible unity." "Chamber music is in their blood."

Son of an artist and a pianist, born in Livorno, Italy, Oscar Ghiglia, guitarist, was a student of, and later assistant to, Andres Segovia. On his first American



tour it was said of him that he has the ability to create a rhythmic pulse so palpable that his listener can almost see it. His technique is extraordinary, and the playing has almost a hypnotic quality. Ghiglia will perform at BNL on Jan. 25.

Evelyn Crochet, a brilliant young French pianist, will be here at the Laboratory on the evening of Feb. 27. Presently on tour in France, she will shortly return to this country, to continue a series of American appearances. Her technique is impeccable and vital, and her audience is promised an evening of musical beauty.

Anrea von Ramm, Willard Cobb, Sterling Jones, and Thomas Binkley make up the Early Music Quartet. Miss von Ramm and Mr. Cobb with voices of an instrumental purity, Mr. Binkley, master of the sackbut and krumhorn, and Mr. Jones, impressive on the viola da gamba, promise a musically enriching evening on the night of March 21.

All Concerts take place at the Brookhaven Center at 8:30 p.m., and refreshments will be served at the Center following each Concert.

Season tickets are available from Clemens Auerbach (NED), Estarose Wolfson (Physics), Rita Straub (Medical), Morris Perlman (Chemistry), Arnold Aronson (NED), Barbara Cartwright (Biology), and Nancy Vanderburg (AEC).

## Football Notes

by Jack Brennan

The Batmen just about locked up their second straight title, beating the Old Timers 42-36. Batmen jumped out to a 24-6 lead and held off the Old Timers' second half surge. Murray Gottfried of Old Timers had 5 TD's, Jake Leventhal of Batmen had 3 TD's and Charly Johnson of Batmen had 2 TD's. AGS finally exploded, licking the Panthers 42-18. Frank Campbell had 5 TD's for AGS. Slow Pokes beat the Kickers 30-6 as Bill Crockett had five interceptions.

The Old Timers licked the Kickers 42-12 as Ernie Bindel had 3 TD's and Walt Reams 2 TD's for the Old Timers. AGS beat Bubble Boys 30-12, Brian Boylan of AGS grabbing 2 TD's. The Panthers beat the Slow Pokes 24-20. Larry Johnson of the Panthers and Steve Feldberg of the Slow Pokes had 2 TD's each. The Slow Pokes also scored a rare safety.

10-297-67  
No Germs Here . . .



Workmen are shown steam-cleaning the sides of the swimming pool in preparation for re-painting. The pool, which has been closed since Labor Day, will re-open on Tuesday, October 24. Photo by Humphrey

## Free Swim on 24th

That's right! You and your family are invited to be our guests at the reopening of the Swimming Pool on Tuesday evening October 24 from 5:15 p.m. to 10 p.m. If you haven't seen our pool yet - you ought to be ashamed of yourself. However, we'll forgive you. Stop by - take a dip and see what you have been missing.

The pool will begin its fall schedule this week: Tues., Wed., Thurs. and Fri., 5:15 p.m. to 10 p.m.

### Daily Admission

Employee or Family Member..... \$ .35  
Guest..... .50

### Season Tickets - (Oct. 25 - mid-June)

On sale at the Pool Office  
Employee or Family Member..... \$ 5.00  
Family ticket..... \$10.00

Bathing caps, ear plugs, nose clips, combs and towels are available for purchase.

**Free Family Pass** - When you visit the Pool on Tuesday the 24th, you will have an opportunity to win the opening day door prize - unlimited swims for you and your immediate family throughout the season.

The drawing will be held at 8:30 p.m.

## Darkroom Night At Camera Club

On Monday, Oct. 16, John Speirs, Past President of the Camera Club and former member of the Nuclear Engineering Department, will demonstrate the techniques of darkroom film and print processing.

The demonstration will be in the Sunset Lounge at the Recreation Building at 8 p.m. Newcomers and non-members are welcome.

## Gym Closed for Two Weeks

Due to the preparations for Visitors' Days, the gymnasium will be closed for all physical activities beginning October 16 and will remain closed through October 30.

## USNR Research Co. 3-9 Brookhaven National Laboratory Upton, N.Y. YA4-6262 Ext. 591 Drill Schedule

For Quarter Ending 31 December 1967

18 October  
AGS Conversion (BNL Lecture)  
Robert Wheeler

8 November  
Operation of Construction Battalion Reserve  
Robert Terwilliger, BNL

15 November  
Radiation Induced Polymerization  
(BNL Lecture)  
Donald Metz

6 December\*  
Modern Optics  
Cdr. Herbert Hallock, Grumman  
Leadership Lecture  
Lt. P. Heim

13 December\*  
World War 2 Development and  
Operation of Amphibious DUKWs.  
Dennis Puleston, BNL  
Uniform Drill

\*Note change in date.



Fire Marshal W. Wisnofski (center) and AGS Liaison Engineer L. Chimienti (right) review a welding operation at the AGS, with welder E. Hart. Welding, burning, and similar operations involving open flames are reviewed by the Fire Marshal, and an approval issued prior to performing this type of work. The purpose of the review is to insure that the fire potential associated with this work is kept to a minimum.



A fire extinguisher training session is conducted by Paul Edwards of the Safety Services Office. The prompt and proper use of this easily operated equipment often prevents the minor fire from becoming a serious and tragic event.

# Classified Advertisements

## Autos & Auto Supplies

66 BRIDGESTONE MOTORCYCLE - 175 cc, candy apple red, 2000 mi, extras, excel cond. \$450. Ext. 2131, SE2-3135 after 5:30 p.m.

55 CHEVROLET - 2 dr, 2 new tires, inspected July. \$100. Ext. 2335, MO9-9221 after 6:30 p.m.

63 PONTIAC LEMANS - 2 dr, auto trans, extra tires, low mileage. Ext. 423.

61 CORVAIR MONZA 900 - 4 speed, very good cond. \$350. F. German, Ext. 7204, AT6-8517.

66 NSU PRINZ "1000" SEDAN - Orig owner, like new, 32 mpg on reg gas, fast dependable. \$1250. Bill, Ext. 2393, 724-3035.

61 TRIUMPH TR-3 - W/'66 TR-4A engine & trans, 12,000 mi, new paint, many extras. \$1495. C. Watson 929-4413.

62 FORD COUNTRY SQUIRE STATION WAGON - V8, auto trans, bodywork immaculate, mechanically sound, low mileage, leaving country, must sell. Sherwood, Ext. 7700.

53 FORD - Perfect inside & out, good motor, std shift, excel transportation, perfect second car. John, Ext. 2971.

66 VOLKSWAGEN 1300 - Excel cond, radio, 5 new tires, black leatherette upholstery. \$1350. Q. Beitel, Ext. 2212.

64 CORVAIR MONZA - 4 dr, hard top, auto trans, new tires, excel cond. \$800. Ext. 7732.

62 MERCURY METEOR - Delux V8 auto, ps, radio, extra snow tires, good cond. \$600. D. Baker, 286-1218.

PLYMOUTH SATELLITE WHEEL COVERS - Set of 4, knock-off (spinner) type, for 14" rims. Best offer. J. Leventhal, Ext. 629.

2 SNOW TIRES - 5.20x13 w/w Goodyear Suburbanites on white rims, new. \$20 each. Mike, Ext. 7174.

66 SUNROOF VOLKSWAGEN - W/rack, r/h. \$1275. JU8-5421 after 6 p.m.

58 CHEVROLET STATION WAGON - Still running, in good cond. Will sacrifice for \$50. Mary, Ext. 7426.

60 FORD WAGON - Ps/pb, clean, good running cond. \$250. M. Hughes, Ext. 7676, AN5-4960.

55 CHEVROLET - W/Corvet engine, 4 bbl carb, 3 speed Hurst trans, just primed gray. Bob D., Ext. 2258, 2380.

7.00x14 BLACKWALL TIRE - Like new. \$7. B. Williams, Ext. 7180.

63 FORD CRUISAMATIC TRANS - Complete w/floor shift & torq convt, almost new, will guarantee. \$75. Bob, Ext. 7769, 298-8509 after 5:30 p.m.

59 FORD CONVERTIBLE - V8, good running cond. \$150. S. Murray, Ext. 2495.

2 FORD 14" RIMS - Good cond. \$5/pr. Rich, Ext. 2735.

59 RAMBLER AMB - 4 dr sedan, ps/pb, r/h, excel tires, in very good cond, this car will never die! Asking a well-worth \$250. Al, Ext. 7142, 273-5574 eves.

61 VOLKSWAGEN - Radio, good cond. \$450. R. Sol-lonek, Ext. 7111.

2 SNOW TIRES - 7.35x14, A&S most expensive line, used 1 season. \$10 each. Becket, Ext. 383, HR2-0832.

66 YAMAHA MOTORCYCLE - 250 cc, candy apple red, 2500 mi, excel cond. \$495. GR5-1355.

61 MERCURY - Conv, blk, ps/pb, good mech cond. \$350. E. McGill, Ext. 2119.

64 VOLKSWAGEN BUG - Good mech cond, needs body work. \$600. E. McGill, Ext. 2119.

67 HONDA - 450 cc, less than 500 mi, windshield, 2 adjustable helmets. All for \$850. Jerry, Ext. 2852, 273-1641.

61 TRIUMPH TR-3A - Immaculate inside & out, low mileage, many unique extras, never raced, orig owner. Marcia, Ext. 2743, GR5-1876.

63 CORVAIR - Auto trans, radio, 1 fender damaged, runs OK, valves & cyl heads fixed this yr, ideal second car. \$200 o.n.o. John. Ext. 2458.

64 DODGE DART - 6 cyl, auto, r/h, new tires, needs some motor work. \$375. Bill, Ext. 2126.

66 HONDA - 65 cc, black, excel cond, 4000 mi. \$150. 289-3190.

66 VOLKSWAGEN - 30,000 mi, tires fair, new spare. \$1350 or best offer. Lou, 567-1003.

15" WHEEL - \$5. Ext. 379.

67 VOLKSWAGEN - White w/black interior, r/h, back & front safety belts, 1100 mi. \$1560. Maria, Ext. 7503, 281-7765.

## Boats & Marine Supplies

14' WOLVERINE - Fair cond, needs caulking & paint. \$30. D. Alburger, AT6-0377 after 6 p.m.

3 HP EVINRUDE OUTBOARD - Long shaft, very little used, excel cond. \$65. Perlman, HR2-1174 eves.

30' AUXILIARY SLOOP - Full cruising & racing gear, sleeps 3-5, SS rigging, dacron sails, 25 hp Gray. Ext. 2191.

18' COMMODORE SEA SKIFF - W/75 hp Evinrude, navy top, side curtains, mooring cover, many extras. \$750. Bill, Ext. 2580.

16' MFG FIBERGLASS RUNABOUT 1963 - 28 hp Evinrude, many extras, incl navy top. Asking \$600. E. Day, AT6-2211.

30' CHRIS CRAFT 1955 - Twin 150, interceptor, FB, DF, SS, sleeps 4. \$3500. LT9-5649 after 6 p.m.

## Miscellaneous

STAINLESS OXYGEN TANK - 10"x18", \$8; 21" Zenith TV, new picture tube, \$10. B. Williams, Ext. 7180.

COLEMAN CAMP STOVE - 2 burners, 3 sleeping bags (Coleman, dacron filled), both items in new cond. Sherwood, Ext. 7700.

DRYER - Norge elec, 220 volts. \$25. 286-2280.

GIRLS' COATS - Size 5, beige/brown pile, w/hood, leggings; size 2, emerald green w/bonnet, leggings; excel cond. \$10 each. AT9-1883.

AMPEX STEREO TAPE RECORDER - 4 track, 2 add'l speakers, good cond, 1 yr old. \$160. AT6-3797.

MAHOGANY BUFFET - Excel cond, ideal for hi-fi. Asking \$135. Ext. 7147, 744-8473.

PREPARE FOR WINTER - Ice skates, men's size 7, excel cond. \$5. Andrew, AT6-8835.

KITTENS - 4 for free, 2 black, 1 brown striped, 1 grey. J. Brown, Ext. 2152.

GAS HEATER - 40 gal cap, Republic, used 2 yrs. \$20. J. Brown, Ext. 2152.

CHROME KITCHEN SET - Green, 30x48, w/1' leaf extension, 4 chairs, heavy built. \$25. GR5-5654.

FENCE - Peeled stockade, 6x7, 2 sections, 3 posts, complete. \$20. Ext. 586.

UPRIGHT PIANO - \$150. HR3-0178.

SPLASHBLOCKS - For rain gutter leader, concrete, duckfoot shape. 2 @ \$2 each. Mike, Ext. 7174.

BEDRM SET - 3 pieces, white, 2 yrs old, excel cond, used as spare rm furniture. \$100. Ext. 2287, 878-2702.

BUNK BEDS - Color lined oak, made by Englander, very good cond, can also be used separately. \$25. Bill, Ext. 2580.

HI-FI EQUIPMENT - Dyna mono preamp, 60 watt Mark III amplifier, KLH-6, bookshelf speaker. Perlman, HR2-1174 eves.

RICOH-500 - 35 mm, w/carrying case, collapsible flash attachment also w/carrying case, excel cond. \$30. R. Evans, Ext. 2198.

CRIB MATTRESS - \$20; baby scale, \$2; dressing table, \$5; baby swing, \$1; 12" tricycle, \$4; child's car harness, \$2. Steve, Ext. 2801.

TV - GE Console, almost works. Make an offer. B. Hertzendorf, Ext. 7677.

PIANO - Steinway upright, old but excel cond & tone, may be heard in apt on site. \$500. Ext. 515, 10 am-10 p.m.

PORTABLE TUBE TESTER - Good cond, \$10; elec stove & oven, fair cond, \$10. A. Kreisberg, Ext. 2411, 2412.

GAS STOVE - 6 burners, oven, broiler, oven door need work, free, you pick it up, I'll help load. Dave, Ext. 7731.

HOME BARBER KIT - Used twice, \$5; oscillating table fan, \$3. Steve, Ext. 2801.

HAM EQUIPMENT - 75 watt 80-10M trans w/plate mod, BC-375 & spare parts, tri band vertical ARC-5\* & other surplus. Rich, Ext. 2735.

STUDIO COUCH - Can be made into dble bed, \$25; beige curtains, odds & ends. Ext. 7147, 744-8473.

AKC BEAGLE PUPPIES - 7 wks old, 1 male, 3 females. Mac, Ext. 466, 281-9559.

SILVER PLATE - Holmes & Edwards, service for 8, "Youth" pattern, excel cond. \$40. J. Godel, Ext. 2534.

DINETTE SET - 7 pieces incl 2 captains chairs, beautiful tan & bronze w/walnut formica table top, very good cond. \$65. Al, Ext. 7142, 273-5574 eves.

19" ZENITH PORTABLE - Model L2210JD, needs help, cheap. First offer. L. DeCarlo, Ext. 2704.

SAINT BERNARD - AKC, male, show winner, loves children, very friendly, 8 yrs old. 878-2659 after 6 p.m.

BLACKSTONE AUTOMATIC WASHER - Working cond, 7 yrs old. \$5. Ext. 2846.

BARN SALE - Sat, Oct 14, 10 a.m.; Victorian oak, antiques; located on Dana Estate, end of Riverside Ave, Mastic. Information, Jean, Ext. 7163.

BELGIAN MAUSER CAL 30-06 - Tapped for scope, very good cond. \$45. F. Rumph, Exa. 2221.

SHALLOW WELL WATER PUMP - Berks centrifugal, 1/4 hp, good cond, \$20; GE roller type ironer for flat work, good cond, \$20. Ext. 590.

CARRIAGE - Converts to car bed, very good cond. \$10. Chapman, 281-3729.

ELEC LAWN MOWER - Black & Decker, excel cond, still guaranteed, 100' cord. Jerry, Ext. 2532.

'67 EXPO TICKETS - 7 day passport. \$5. AT6-8517.

CANISTER VACUUM CLEANER - Sears, 1 yr old, perfect cond, has provision for powermate accessory. \$45. John, Ext. 2458.

8 MM MOVIE CAMERA - Bell & Howell, Turret Model 252 Sundial, w/case; Smith-Victor four lamp light bar. \$15 for everything. Chuck, Ext. 2821.

DINETTE SET - Good cond, \$25; kerosene tent heater, \$5; 17" TV table, w/swivel table, good cond, \$20. Ext. 698, SE2-5218.

STROLLER - \$3; mailbox, 50¢. Rod. Ext. 7262.

1/2 ACRE WOODED CORNER PLOT - Approx 150'x140', triple A residential area, near beautiful Mattituck inlet. 281-9411 after 4:30 p.m.

BABY CARRIAGE FOR TWIN - Conv into stroller. \$25 or best offer. Ext. 7726.

## Houses

PATCHOGUE - Maple Ave area, beautiful home, 200' deep, 3 bedrms, lg 4 R, din rm, enclosed sun porch, 1 1/2 baths, hw heat, 2 car garage. GR5-1047.

BROOKHAVEN VILLAGE - Waterfront colonial on bulkheaded canal, 8 rms, 1 1/2 baths, oversize dbl garage, fenced play area, 1/2 acre. \$33,000. AT6-0322.

CENTER MORICHES - 3 bedrm ranch, convenient to shopping, schools, churches, oil heat, full basement, avail for immediate occupancy-by owner. 878-0642.

CALVERTON - 60'x10' Expando mobil home, Kropf, 2 bedrms, w/w carpeting unfurnished, priv prop 200' from lake. 727-0136 after 5:30 p.m.

WADING RIVER - 2 bedrm ranch, w/w carpeting, baseboard hw heat, dble garage, full basement can be finished for add'l bedrms, 130'x150', schools, etc 1/2 mi. 929-4714.

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

SETAUKET - Old Field, South, acre plus, laurel, trees, landscaped, 10 rms, 2 baths, patio 60'x40', incl outdoor furniture, many extras, avail May-June '68. \$45,000. Ext. 7748, 751-0288.

MILLER PLACE - 3 bedrm custom ranch, 2 baths, landscaped lot 100x150, 2 yrs old. 744-2821.

SHIRLEY - Near shopping, 10 min to Lab, 2 bedrms, full attic & basement, 1/2 acre land, easily expandable. 281-5698.

## For Rent

3 BEDRM HOUSE - Shirley, unfurnished, 4 1/2 yrs old, lg kitchen, garage, basement, very clean. \$140/mo. 281-6318.

3 BEDRM COLONIAL - Blue Point Village, 1 1/2 baths, hw heat, lg yard, newly redecorated, 25 min to Lab. 363-6786.

3 RM APT - Lovely, new, completely furnished, suitable 1 or 2 adults, all util incl, Medford. \$125/mo. GR5-5052.

3 RM APT - Furnished, incl util. 744-2004 after 5 p.m.

FURNISHED STUDIO - Equipped kitchen, bath, lg closets, priv entrance, 10 min from Lab, South Haven, elec incl. \$85/mo. AT6-0475.

## Wanted

BLOOD DONATIONS - For 2-yr hemophilic son of Lab employee. If interested in donating on Tues, Oct 24, in Patchogue, please call J. Dorning, Ext. 7412, 7413.

UP TO 384 PLAID STAMPS - In exchange for like number of King Korn Stamps. Steve, Ext. 2801.

M1 ARMY CARBINE - 30 cal. Ext. 423.

2 SNOW TIRES - 6.50x13. A. Torre, Ext. 423.

HOMES FOR PUPPIES - Husky-Terrier mix. F. Drell, Ext. 7228.

TRADE - Willing to exchange 1 Met Opera ticket, La Traviata, Oct 19, for another one. Matko, Ext. 613.

APT - 2 bedrms, Patchogue area, w/util incl if possible. Lee, Ext. 7637.

ELEC MIXER - Steam iron; baby carriage. Fuks, Ext. 2427, 525.

ELEC MIXER - Steam iron; baby carriage. Fuks, Ext. 2427, 525.

BUYER - For Wading River 2 bedrm ranch, w/w carpeting, baseboard hw heat, dble garage, full basement, can be finished for add'l bedrms, etc, 130'x150', schools, etc 1/2 mi. 929-4714.

CAR - Requiring mechanical attention, automotive student will purchase, what have you? Jack, Ext. 406.

CHEMICAL SCALE OR BALANCE - For high school student chemistry buff, also condenser & other equipment, must be cheap. M. Plotkin, Ext. 7103.

PEOPLE INTERESTED IN CHAIR CANING - I will teach you at my home, 473-8578 after 6 p.m.

TYPING WORK TO DO AT HOME - Manuscripts preferred. 473-8578 after 6 p.m.

SNOW BLOWER - In good working cond, medium to heavy duty. Reasonable. Wright, Ext. 7254, GR5-7589 after 6 p.m.

BUST HALF DOLLARS - George, Ext. 2191.

BABYSITTER - Day or night sitting, 5 days/wk, Blue-point area, for 2 children ages 4&5. Lee, Ext. 7637.

ROOMMATE - To share apt, 10 min to Lab. Ext. 418.

## Carpools

FORM OR JOIN - 2 person carpool from E Patchogue area. Pfeiffer, Ext. 7228.

1 OR 2 DRIVERS/CAR - To join 3 man carpool from Massapequa (Bar Harbor). Dave, Ext. 2554.

DRIVER - Wanted to fill 5 man carpool from Patchogue area. R. Scalzo, Ext. 2180.

TWO DRIVERS WANTED - To complete existing carpool from Riverhead. Pat, Ext. 7691.

RIDER-RIDE - Desired from W Patchogue Area. Marcia, Ext. 2743.

BRENTWOOD - Vic LI Expwy anyone? Can drive Tues and/or Fri. G. Rakowsky, Ext. 7463, 2582.

WOULD LIKE TO JOIN OR FORM - Carpool from Bellport. J. Crow, Ext. 7318.

DRIVER - To complete 3 member informal carpool, Mastic Beach. Rod, Ext. 7262.

PAYING RIDER - From 234 River Ave, Bayview Apts, Patchogue. Helen, Ext. 557.

## "Everything will be aaalll right."

An adult comedy about a chorus girl who is awakened to the world of intellect will be the BERA Theatre Group's Fall production. The play is Garson Kanin's *Born Yesterday* and it will be presented at the Theatre on November 10, 11, 17, and 18. *Born Yesterday* concerns a millionaire junk dealer, Harry Brock, who checks into the most expensive suite in the most expensive hotel in Washington. With him is his mistress, the beautiful, dumb Billie Dawn. Harry's purpose is simple. He wants to buy himself a Senator . . . but Harry has a problem. Billie will certainly embarrass him in the social circles of the elite Washington society. So, he does what any shifty rich guy would do: he hires a writer from *The New Republic* to instruct Billie in couth. Things begin to backfire on Harry when it turns out that the writer, Paul Verrall, is more interested in getting the goods on Brock, while Billie is more interested in getting the unsuspecting Paul.



The Broadway production of *Born Yesterday* starred Judy Holliday as Billie, one of her most memorable roles. It was presented at the Lyceum Theatre in New York with Paul Douglas as Harry Brock and Gary Merrill as Paul Verrall. Miss Holliday later recreated the role of Billie in the highly successful cinema version.

Aside from the dialogue and insane situation, which have been rolling audiences in the aisles for years, *Born Yesterday* is a play with dramatic content. Its most obvious theme is the struggle between Brock, more ignorant than evil and almost more animal than man, and Paul Verrall, representing civilization. Where will Verrall's victory lie? Is he physically strong enough to defeat the likes of Harry Brock, or does he have what it takes to turn the head of a girl like Billie? The hysterically funny answer can be found in the BNL production.

by Director  
Scott Andrus

## Classified Ad Policy:

- 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 associated 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. (Additional copies of the form are available at the Bulletin Board office.) Twelve noon on Friday is the deadline for inclusion in the following week's issue.

6. Ads are run on a space-available basis; those not carried because of space restrictions will be held for inclusion in the next issue.

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

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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 checked="" 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