BULLETIN BOARD

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Schonberg Joins Staff In Personnel Division

Richard B. Schonberg, a compensation specialist, has joined the Brookhaven staff in the Personnel Division as Salary and Wage Manager.

Schonberg, a native New Yorker, has most recently served as Senior Compensation Analyst at the Sandia Corporation, Albuquerque, New Mexico, where there are over 8,000 people employed. Previous to working at Sandia, he was employed by Transitron Electronics at Wakefield, Mass.

Born in Bayside, Queens County, New York, Schonberg received his BS degree from Marietta College, Ohio, in 1953. After graduation he served two years in the US Army with the Signal Corps. After his

discharge from the Army in 1955, he was employed by Commercial Credit Corp., Boston, Massachusetts and simultaneously continued his studies, earning his Masters in Business Administration in 1962 at Northeastern University.

Mr. Schonberg, his wife Joanne and their children, two boys and a girl, are presently residing in an on-site apartment.

S & M Office Moves To Warehouse Area

On Thursday, September 26, the Supply and Materiel Division completed the move of its office functions to a new location in the warehouse area.

The new office, at 10 South Seventh Street, Building T-211, is closer to all the service functions of the division, and is provided with ample parking facilities. In addition to the general offices of the S & M Division, the Quality Control Section, the Requisition Section and the Capital Equipment records and functions are in the new location.

The Catalog Section in the new building has been changed to a modern library-type operation to facilitate searching for desired articles.

All telephone extensions for the S & M Division remain the same as they were in T-100. Mail should be addressed to the new Building, T-211.

Seaborg Wins Award

Chairman of the U.S. Atomic Energy Commission, Dr. Glenn T. Seaborg, has been named the 1968 winner of the Arches of Science Award.

This award, sponsored by the Pacific Science Center, is given to an American who has contributed to the public understanding of science. The $25,000 award will be given to Dr. Seaborg on October 16 in Seattle.

Dr. Seaborg has served as Chairman of the AEC since 1961. A former chancellor of the University of California at Berkeley, he was the 1951 Nobel Prize winner in chemistry and is the co-discoverer of plutonium.

Naval Reserve CO's and Exec's Meet 9-586-68

At an information meeting of the Commanding and Executive Officers of the Suffolk County Naval Reserve units are (left to right) Captain Victor P. Bond, Commanding Officer NRRC 3-9, Commander S. J. Tassinari, Commanding Officer, NR Group 3-10, and Captain B.L. Tanner, USN, representing the Commandant of the Third Naval District. BNL was host to the group at their meeting last week. Photo by Walton

Das Ist Ein Tannenbaum

There is a blue spruce tree on Upton Road near the corner of Brookhaven Ave. which old timers will remember as the Laboratory's Christmas tree some years back. It used to be a little tree, but is now a big tree. In fact, it has grown so much that it constitutes a traffic hazard as you approach Upton Road when driving west on Brookhaven Avenue.

The corner contains a traffic light which, except for the rush hours, flashes yellow for Upton Road traffic and red for Brookhaven Avenue traffic. Drivers going west on Brookhaven Avenue who have stopped for this light cannot fully see the traffic approaching the corner from the left on Upton Road, because of the tree.

Hence, plans are underway to remove the lower branches in an effort to improve the view. If trimming fails to solve the traffic hazard problem or results in making the tree unattractive, it is planned to remove the tree entirely.

To relocate the tree nearby, but farther from the road, would cost an estimated $800, and to relocate it elsewhere would cost considerably more due to additional trucking and other charges.

Auf wiedersehn, mein tannenbaum.

Reactor Physics Chief Addresses Group 9-563-68

Dr. Ira F. Zartman, Chief of the Reactor Physics Branch of the AEC Division of Reactor Development and Technology (center) addresses members of the Cross Section Evaluation Working Group at their fifth semi-annual meeting. Dr. Zartman was one of the principal proponents of the formation of this group. 9-565-68

Honored guests at a meeting of the Cross Section Evaluation Working Group held recently at BNL were: (left to right) Dr. George Vineyard, Deputy Director of BNL; Dr. Ira F. Zartman, and Dr. Maurice Goldhaber, Director of BNL. Photos by Humphrey

Shellabarger Named Assistant Chairman Medical Department

Dr. E.P. Cronkite, Chairman of the BNL Medical Department, has announced the appointment of Dr. Claire J. Shellabarger as Assistant Chairman, Medical Department, effective September 9, 1968.

Dr. Shellabarger received his PhD from Indiana University in 1949, and subsequently joined the BNL Staff during the period 1952-1960. He then became affiliated with the University of Michigan Medical School as Chairman of the Graduate Radiation Biology Program and Coordinator of the Kresge Radioisotope Laboratory at the University of Michigan. On September 1, 1968, he returned to BNL.

Dr. Shellabarger's recent research interests have been involved with studying radiation and mammary neoplasia and the interactions of chemical carcinogens with radiation exposure.

In addition to his Departmental responsibilities as Assistant Chairman, he will have full responsibility for all personnel matters pertaining to the non-scientific staff and also serve as the Medical Department's liaison with the Youth Opportunity Campaign, the Equal Employment Opportunity Commission and the Brookhaven Semester Program.

Why Not Try FTS?

You can make a call to the AEC in Washington, D.C. or to the Coulee Dam in the State of Washington, and the cost of each call will average out to $0.82 if the call is completed on FTS. Our Bell System long distance phone calls average out to $3.20 per call.

FTS, Federal Telecommunications System, is a direct dialing station to station, long distance telephone system connecting over 2½ million telephones used by the U.S. Government, its civil agencies, and principal contractors. It also has access to all Bell System telephones.

On July 6, 1964, FTS was turned on at BNL, but as with any new system, it was not immediately tuned in. There were snags and slow-downs and a fair amount of confusion on both ends of an FTS call. With the passing of time and the gaining of experience, the system has proven itself a very worthwhile one.

FTS Bats .750

Recently tests of a week's duration were made on the placing of FTS calls. Well over 75% of the calls placed were completed without delay or trouble in service. The Laboratory is billed for FTS usage on a fair share, flat fee basis which will make average cost of an FTS telephone call during FY 1969 only $0.82. Such a savings is well worth making.

Employees who do not use the FTS system as a general practice for official long distance calls are asked to familiarize themselves with the usage of the system, and are urged to make full use of the system for all official calls, both on and off net. The directory is no more difficult to use than a Bell phone book, and it only takes the number "8" to get on FTS.

If a call does not go through immediately on FTS, place it with the BNL Operator. She will try FTS once, and if there is still difficulty on the system, she will then place the call over the Bell System. There can only be a slight delay to the caller, but there can be a big saving to BNL and to the Departments and Divisions placing the call. Each Bell System long distance call is charged to the accounts of the Departments or Divisions making it, on a call by call basis.

Calls To BNL

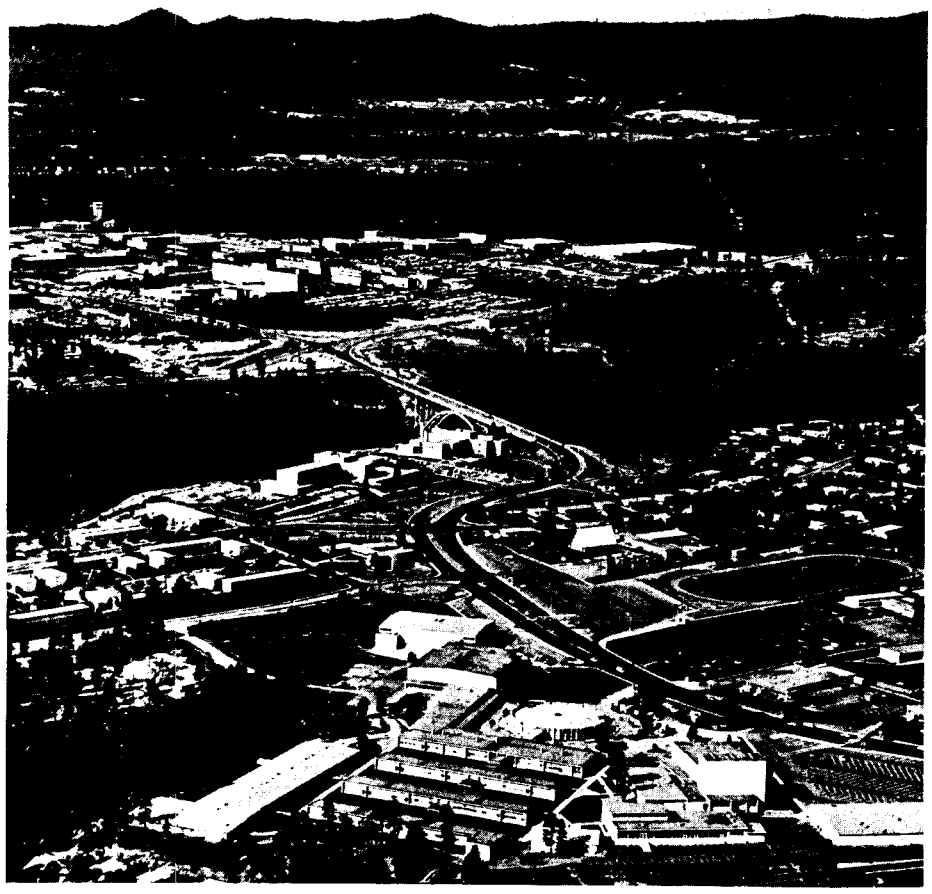
It is also worthy of note that in most cases FTS can be used to call the Laboratory from distant cities rather than making a collect call on the Bell System. The number for the FTS operator can usually be found in any Bell directory.

If any employee has questions on the use of FTS, Staff Services will be glad to help clear them up. The full value of FTS is dependent on its proper use.

IBEW Meets Tonight

The monthly meeting of the International Brotherhood of Electrical Workers of America Local 2230 will be held Thursday evening, September 26, 1968 at the K of C Hall, Railroad Avenue, Patchogue at 8:00 p.m. Regular business of the organization will be discussed plus reports on committees and by-law changes.

Los Alamos Chiefly Weapons Lab



An aerial view of the main laboratory technical area (background), high school (near foreground) and bridge across Los Alamos Canyon which separates Los Alamos Scientific Laboratory from the town.

Los Alamos, N.M. – It was rumored that "they were making windshield wipers for submarines." Then as World War II ended, it was revealed that the place on the hill, Los Alamos Scientific Laboratory, had made the weapons of war which were instrumental in ending the conflict in the Pacific. These weapons, of course, were the world's first atomic bombs. If submarines had windshield wipers, they were made somewhere else.

The Los Alamos facility is still principally a major nuclear weapons laboratory, although a substantial part of its work is now "basic research" in the atomic energy field.

Los Alamos Scientific Laboratory has been operated by the University of California since January 1, 1943, first for the Manhattan Engineer District of the U.S. Corps of Engineers, and since late 1946 for the U.S. Atomic Energy Commission. It is presently embarked on the development of a $55-million proton linear accelerator with a beam energy approximately ten times higher than the highest energy machine of this type now in operation.

It will carry in its beam more power than any existing accelerator of any type. The Los Alamos Meson Physics Facility (LAMPF) is a variable energy, 800-MeV (Million electron Volts) proton linear accelerator which will provide an average current of 1 mA (one milliampere, or one one-thousandth of an ampere). The accelerator is composed of three sections and is one-half mile long.

The LAMPF is to be national in character and will be utilized by scientists from throughout the United States. It is expected to be operational by 1972.

Controlled Thermonuclear Research

The energy potential in a gallon of water is equivalent to 300 gallons of gasoline. One cubic mile of water has the energy potential of 100,000 tons of uranium-235. Thus, there is sufficient energy in the oceans to supply power to the world at 100 times the present consumption for 10 billion years.

The trick, of course, is the production of a controlled thermonuclear reaction that uses deuterium, or heavy hydrogen, which is found in small quantities in common water. The importance of pursuing controlled thermonuclear research is that this could be the ultimate solution to the world's requirements for low cost power. The fuel is abundant and very inexpensive. The reaction products are non-toxic and non-radioactive, and there is no danger of a run-away reaction. The long term possibility exists for greatly improved efficiency through direct conversion of part of the thermonuclear energy into electricity.

A thermonuclear reaction is a fusion reaction, the same type of reaction that keeps the sun and stars burning; a reaction whereby the nuclei of light atoms, such as hydrogen, deuterium and lithium are combined or fused together releasing tremendous amounts of energy.

To attain a power-producing thermonuclear reaction, one must produce temperatures in excess of 50 million degrees and contain pressures of the order of tons per square inch. These temperatures and pressures must be held for a time span of at least a hundredth of a second.

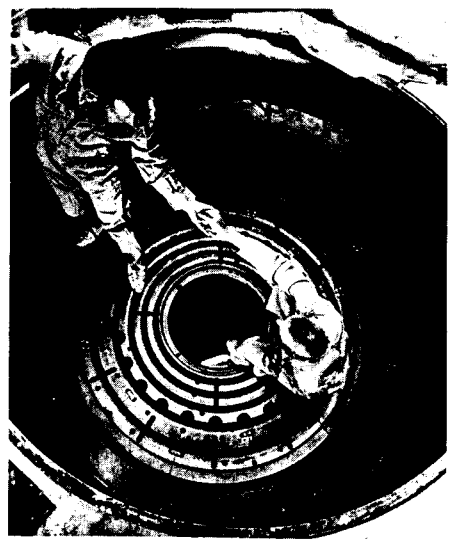
A magnetic field is the most promising "bottle" or container which can hold a heavy hydrogen plasma at the pressures and temperatures required.

An early laboratory device for creating and controlling fusion was built and tested at Los Alamos in 1952, just before the first test of a hydrogen bomb. The device was named Perhapsatron – perhaps it would work and perhaps it wouldn't. It didn't, but sufficient data was obtained to indicate that some day success might be possible.

The first time a controlled thermonuclear fusion reaction was achieved in a laboratory occurred at Los Alamos in the summer of 1958 with a device known as Scylla I. The historic device was exhibited at the Geneva Conference on Peaceful Uses of Atomic Energy in Switzerland in 1958 and is to be displayed soon at the Smithsonian Institution in Washington, D.C.

Ultra High Temperature Reactor

Reactor research has been a major program of the Los Alamos Scientific Laboratory. The world's first homogeneous reactor and first fast plutonium reactor was developed and built here.



The fuel element hole spacing of UHTREX (Ultra High Temperature Reactor Experiment) at the Los Alamos Scientific Laboratory was carefully checked during core assembly.

The field of advanced reactor development offers a potential of lower power costs, greater power plant safety and simplicity, and higher thermal efficiency.

The latest advance is UHTREX (Ultra High Temperature Reactor Experiment) which achieved criticality in late 1967.

UHTREX is a high-temperature, gas-cooled reactor using unclad solid graphite fuel elements. Major tasks for UHTREX include investigations of low-cost cycling

(continued on page 3)

Here and There

Dolores del Castillo

Charles B. Meinhold (Health Physics) has returned to the Laboratory after attending a meeting of the ICRP Task Group Committee 3 in Copenhagen, Denmark where he gave a seminar at the National Institute of Radiation Protection in Stockholm, Sweden. While in Europe, he also visited the Nuclear Power Station at Chapelcross, Scotland.

Frederick P. Cowan (Health Physics) recently returned from Albuquerque, New Mexico where he consulted with FAA and AAF personnel on radiation instrumentation for the Supersonic Transport.

A Heart/Lung Resuscitation Class was presented to the members and students of the Patchogue Bay Power Squadron in the Patchogue High School cafeteria by **Paul Edwards** (Safety Office) on the evening of September 16.

Hubert Willem De Kock of the Philips Duphar Cyclotron in The Netherlands will visit the Laboratory on October 16 to discuss isotope chemistry.

H.A. Das of Reactor Centrum, Pettin, The Netherlands, will visit the Laboratory on October 15.

Geoffrey Phillips of the UKAEC Analytical Science Division will visit the Laboratory on October 17 for discussions in analytical chemistry and actinide analysis.

William Fleischer (Plant Engr. & Plan.) recently attended the 6th Annual Liberty Bell Corrosion Course given by Drexel Institute.

Dollars and Sense

Leon Meshel

Dividend Exclusion by Frank Bloom

Many people today hold investments in the stock market. Married taxpayers who own dividend paying stocks and file joint Federal Income Tax Returns sometimes overlook a readily available tax benefit. The law permits an exclusion from income of up to $200 of qualifying dividends. However, the exclusion is allowed on the basis of $100 for each taxpayer. Therefore, on a joint return each taxpayer (husband and wife) can exclude the first $100 of qualifying dividends. However, in order to take full advantage of the exclusion, the dividends must be attributable to the husband and wife on an individual basis. The following examples illustrate the above:

1. Mr. A and his wife file a joint Federal Income Tax Return. They own *jointly* 200 shares of stock in XYZ Corp., from which they receive $200 in dividends. On their tax return, they can exclude the entire $200 of dividend income.
2. Same as (1) above except Mr. A and his wife *each* own separately 100 shares of XYZ Corp., from which they *each* receive $100 in dividends. Again, they can exclude the entire $200 ($100 for each taxpayer).
3. Same as (1) above except Mr. A owns *all* 200 shares of XYZ Corp. The dividend exclusion on Mr. & Mrs. A's joint return is limited to $100.

As illustrated above in example (3), it would have been advantageous for Mr. A. to have purchased the stock jointly as in (1), or separately for his wife and himself as in (2). A remedy available for Mr. A in example (3) is to transfer ½ of the stock in XYZ Corp. (100 shares) to Mrs. A as a gift and then the total dividends ($200) would be excludable from income.

It is important for the taxpayer to understand that this exclusion applies to dividends from stocks only. The "dividends" paid by Mutual Savings Banks on savings account deposits are actually interest income and do not qualify for this exclusion.

Vending Machine Service

Vending machines will remain in service in the East Room of the old cafeteria as long as possible. A new space is being prepared for them; it will be the subject of another notice before the machines are moved.

Keep Clean!

The Men's Shower Room in the Gymnasium will be closed Monday and Tuesday, September 30 and October 1 for maintenance and repairs.

BULLETIN BOARD

Published Weekly for the Employees of
Brookhaven National Laboratory

CARL R. THIEN, *Editor*
DOLORES DEL CASTILLO, *Editorial Assistant*
CLAIRE LAMBERTI, *Copy Preparation*

40 Brookhaven Ave. Upton, N.Y. 11973
Telephone 516 924-6262 Ext. 7238

NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Dear Sir:

It is indeed regrettable that the Administration of this Laboratory is proposing to chop down the giant spruce at the intersection of Brookhaven Avenue and Upton Road, under the questionable pretense that it is an accident hazard. In the history of the Laboratory there has never been, nor is there likely to be, an accident at that corner attributable to the tree. In fact, there has never been *any* accident at that corner.

An electric saw can destroy with astonishing rapidity what nature has taken 40 or 50 years to build. The spruce in all its grandeur has done nothing but enhance the natural beauty of the Laboratory site, and accordingly does not deserve to be felled for the gratification of some official's fleeting fancy.

Annoyed

Dear Sir:

Ode to a Spruce

I think that there will never be
A crossroads lovelier without a tree.
Why should this perfect creature fall
At some administrator's call?
This tree, that would not wish us harm
But only please us with its charm.
Why rudely hack its sturdy limbs
To please some strange official whims?
Why should this spruce receive the blame
For accidents that never came?
So let us drive with extra care,
And save this tree that is so fair.

Joyce Kilmer II

Hospitality News

The monthly Hospitality Committee coffee meeting will be held on Monday, September 30, from 10 a.m. until noon. Mrs. M. Jamuar will discuss the sari and demonstrate the intricacies of folding a sari.

House number C-11 is the new location. Newcomers and old timers are welcome. Be sure to bring the children.

Brookhaven Flying Club to Tour MacArthur Airport Facilities

The next meeting of the Brookhaven Flying Club will take place at 8:00 p.m. on Thursday, October 3. A tour of the Air Route Traffic Control Center (ARTCC) and the Flight Service Station has been scheduled. Club members and friends should meet at the ARTCC, which is the large building at the entrance to MacArthur Airport from Veterans Memorial Highway. A short business meeting for the purpose of the nomination of officers will precede the tour. Punctuality will be appreciated.

Arrivals & Departures

Arrivals

Robert B. Carter	Plant E & P
Izumi Kabasawa	Biology

Departures

William C. Delaney	Physics
Harry J. Horn	Accelerator
Evelyn E. Ingoglia	Physics
James T. McManus	Appl. Math.
Brian R. Martin	Physics
Charles H. Nauman	Biology
John T. Sears	Nuc. Eng.
Elizabeth A. Weaver	Biology

Charles W. Carlson who had been on Military Leave of Absence since August 1966, returned to work in the Physics Dept. on Sept. 23, 1968.

Los Alamos Lab (Continued)

of fuel, an evaluation of methods for purifying the coolant, a study of the behavior of advanced designs of graphite fuel elements at very high temperatures, and the transient response of these fuel elements when subjected to abnormal conditions.

UHTREX is a unique reactor in several aspects – including the fuel-loading processes. Most reactors have to be shut down to replace the fuel elements. This "dead time" reduces the reactor's efficiency and requires an alternate or standby power source for a commercial operation. With UHTREX, the fuel elements are changed during operation without shutdown. The new fuel elements are pushed in and the old elements drop out on a conveyor system and are brought back for study, analysis and possible reprocessing.

Project Rover

Project ROVER is America's program to develop a nuclear propelled rocket capable of advanced missions in space. LASL has been the pioneer in this effort, carrying rocket reactor concepts through the feasibility demonstration. Although the ROVER program has been expanded to encompass rocket engine technology at Aerojet General Corporation and Westinghouse Electric Corporation, LASL continues to explore advanced concepts in nuclear rocketry.

The first ROVER reactor, KIWI-A, was tested by LASL at the AEC's Nevada Test Site in July, 1959. This reactor generated 70 megawatts of heat for five minutes. By mid-1968, LASL had built and tested 11 nuclear reactors, with power production reaching above 4000 MW for 12 minutes in the most recent Phoebus-2A.

In addition to testing the first reactor, LASL has achieved a number of other important "firsts" in the ROVER program: The first use of liquid hydrogen to cool a reactor (KIWI B1B), the first reactor restart, the first fully automatic startup of a reactor (KIWI-B4D). LASL is also responsible for a wealth of engineering and scientific superlatives resulting from the ROVER program: Fabrication of the most powerful nuclear-power reactor known (Phoebus-2A); the largest capacity test facility involving liquid and gaseous hydrogen (Test Cell "C", NRDS); and the highest temperature and highest power density fuel elements known (Phoebus-2A).

Biomedical Research

The program of the LASL Biomedical Research Group is making progress in all areas. Particularly noteworthy is the biophysics program; the electronic separator, originally designed to separate cells on the basis of their surface charges, is now being improved to use the light absorbing and reflecting properties of cells. By combining the surface charge and optical properties of the cells it may now become feasible to separate normal from abnormal cells.

A highly automated cell-sizing and cell-counting instrument recently developed at the Los Alamos Scientific Laboratory is an important tool of the Biomedical Research Group. The glass jars contain a suspension of mammalian cells.

A technician at the Los Alamos Scientific Laboratory inserts core materials in one of the two matrices of the "Honeycomb" critical assembly machine. The core materials are part of a nuclear propulsion reactor mockup. The two halves are remotely brought together and the nuclear properties of the core can be measured.

Cryogenics

In the laboratory, cryogenics is used to study the effects produced in materials when they are subjected to extremely low temperatures.

Cooling a substance to a temperature approaching Absolute Zero (– 459.6 degrees Fahrenheit) quiets down its molecular action, making it easier for the scientist to study the basic structure of the material. Heat causes the molecules to vibrate and the properties of a material to change considerably.

The Los Alamos Scientific Laboratory has extensive facilities for studying the effects – some very bizarre – on materials subjected to extremely low temperatures. For example, one isotope of helium – helium-4 – when in a cryogenic state, appears actually to flow up the sides of its container and pour itself out.

University of California

The University of California as prime contractor to the AEC for the Los Alamos Scientific Laboratory for more than 25 years is one of the nation's "oldest" nuclear contractors.

The annual LASL payroll is approximately $44 million. Operating costs – excluding construction – average more than $90 million each fiscal year. Value of AEC-owned laboratory plant and equipment at Los Alamos is more than $245 million.

Until February 1957, Los Alamos was a "closed city" and casual tourists or visitors were not permitted. Entry to the technical areas is still controlled, however.

Today, the city of Los Alamos has a population of about 15,000, with the majority of the residents owning their homes. A number of Los Alamos residents exercised an option offered by the AEC and purchased their previously Government-owned homes while others built new homes on land sold by the Government.

Nevada Operations

The Los Alamos Scientific Laboratory also has 100 or more scientists and technicians stationed full-time at the AEC's Nevada Test Site northwest of Las Vegas, Nevada.

This contingent is responsible for field testing of weapon-type devices, as well as field testing of reactors for the ROVER program.

Continued Objective

Historically, LASL was established with the immediate and sole objective of making a nuclear weapon. Until 1952, the Laboratory had no major program of activity other than weapons development. Although Los Alamos Scientific Laboratory is devoting much of its effort towards the peaceful applications of nuclear energy, its primary mission remains what it always has been – research and development work on nuclear and thermonuclear weapons and weapons components.

Concert Series

Tickets for the Concert Series may be purchased from the following people:

Clemens Auerbach
Extension 7753, Nuclear Engineering
Manny Hillman
Extension 2378, Nuclear Engineering
Myron Ledbetter
Extension 7215, Biology
Barbara Michelsen
Extension 2543, Biology
Jack Stehn
Extension 2449, or 2532,
Nuclear Engineering
Estarose Wolfson
Extension 408, Physics
Arnold Aronson
Extension 2922, Nuclear Engineering
Rita Straub
Extension 2878, Medical
Blanche Laskee
Extension 2808, Recreation

Art Show Planned

The BERA Art Committee has announced impressive plans for its next exhibition. The show, entitled "Sculpture Now" will explore the broad vocabulary of modern sculpture and promises to be one of the most stimulating and controversial shows ever presented at the Laboratory.

The exhibition will be the first to be presented in the new Cafeteria-Lecture Hall, and has been selected with its surroundings very much in mind; not only will examples be shown of the use of materials such as plastics and glass in sculpture, but also the influence of sculptural concepts on other areas such as ceramics, painting, and furniture will be explored. This is a fitting show to take place in such a successful piece of architecture-sculpture.

The show has been organized through the collaboration of Mr. Emanuel Benson of the Benson Gallery in Bridgehampton and will include a variety of well-known American and European artists.

Details of the dates and times of the show will be given in next week's *Bulletin Board*, but the gala opening night is set for Monday, October 7, and the show will be open for approximately two weeks.

BERA Golf News

G. Starke

Once again the BGA competition has passed into history. After weeks of aggravating near misses, blistered soles and sweat-soaked socks, we have finally brought this glorious season to another tearful end.

The first place teams for their respective leagues are, Vic Bond and 'Red' Carsten. Does an electric cart really help? Charlie Flood with a slight assist from mighty Joe Cardamone won in their league. Jim Conway and Al Wirszyla are at the top in the red league. Well done. The number two spot is shared by Marty Caunter and Tom Iarocci, Bob Casey and Harold Bates, Mike Iarocci and John Dioguardo. George Kuzmack claims the big trophy for first place in the championship tournament. George is quite happy. Taking second place is steady Tom Iarocci.

Next month a slate of nominees will be published for the membership to choose new officers. Self nominations shall be accepted from any member interested in serving next year. Comments and new ideas are always welcome.

Swimming Pool Schedule

The swimming pool will be closed for maintenance repairs until mid-October.

BERA Film Series

Thursday, October 3 – 8:00 p.m. – Lecture Hall

Ashes and Diamonds

Germany has surrendered; it is 1945. News spreads slowly in the country, though. In a small town in Poland two members of the Polish underground are appointed to kill the newly arriving Communist district secretary, but they kill two innocent workers by mistake. However, the necessity of killing the new Secretary is not obviated.

The Secretary was a Fifth Column volunteer in Spain and was later trained in Moscow to be a Communist administrator. He is tired, but he is eager to put his Communist ideals into practice. Maciek (Zbigniew Cybulski) is one freedom fighter appointed to kill the Secretary. He doesn't want to fight anymore: He has fallen in love with a young barmaid, Christine (Eva Krzyzewska). But desertion, the only escape, is most dishonorable.

As the news is slowly spread about the surrender, Maciek kills the Secretary and gets killed himself.

The director of Ashes and Diamonds, Andrzej Vajda, is regarded as an initiator of the East European film renaissance because the films directed by his followers and him give some of the clearest portrayals of a Communist society the West has ever seen. Vajda has utilized good photography and acting to present the dynamics of this society and its struggles through symbolism of the images conveyed through the constant juxtaposition of ashes and diamonds.

V. Levis

Movie Tonight: Shane

Bowling News

Irma Carl

Red League

High Scratch Game	F. Green	223
High Gross Series	G. Tanza	692

Green League

High Scratch Game	J. Rhodes	206
148 Triple	A. Texeria	

Purple League

After two weeks the Twisters are in first place closely pursued by the Designers and Bagel's Buns. Vinnie Felice was the big gun with a 257-212-619 scratch. The 'old man' of Phoubars had a 206-522 scratch and Bob Smol a 201-554 scratch.

We hear Alex Hanson is out of the hospital. How about sending him a card?

Pink League

Welcome to our new bowlers and particularly to the "Fixed Assets" and the "Hopefuls" for making us an 8-leaguer.

High Scratch Game	C. Beckner	191
High Scratch Series	M. Stoeckel	460
High Gross Series	M. Craig	614

Thespians Choose Play

The BERA Theatre Group's next production will be "The Crucible," written by Arthur Miller. It will be directed by Julie Peierls and produced in January. "The Crucible" takes place in Puritan New England and deals with the Salem witch hunts. The cast includes eleven men and ten women.

Auditions will be held on Thursday, September 26, Monday, September 30, and Wednesday and Thursday, October 2 and 3. All auditions will be held at 8:00 p.m. in the Theatre. Anyone wishing to try out, but finding the schedule inconvenient, should contact John Binnington at Ext. 2294.

The next general meeting of the Theatre Group will be held on Monday, October 7, at 8:30 p.m. in the Theatre.

The scheduled program for the evening will be readings from *Rosencrantz and Guildenstern are Dead.*

Football Notes

by Jack Brennan

The Slow Pokes "put it all together" as they beat AGS 43-6. Six men had a hand in the Slow Pokes scoring, L. Johnson taking in two T.D.'s to accommodate T. Prach's passing. Applied Math beat the Old Timers 18-12 with E. Taylor scoring two T.D.'s for Applied Math. The Mets broke into the win column by edging out the Kickers 19-18 on L. Snead's extra point pass to P. Mattern.

Personnel Services

At the Recreation Office

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

Theatre Tickets – Theatre tickets to certain shows (listed below) may be purchased at a 20% discount. Schedules and prices are posted in the Office. All orders must be placed in person and accompanied by a check or money order at least two days in advance (no cash will be accepted). Sorry, no discounts on Saturday nights.

Westbury Music Fair – Now through October 6 Carol Lawrence and Dick Shawn in "I Do! I Do!"

Mineola Theatre – Sorry, no discount tickets for the Special Inaugural Season Series ("Our Town" and "Front Page," September 24 through October 20).

Metropolitan Opera – Tickets are still available for:

October 8	Adriana Lecouvreur
November 4	Adriana Lecouvreur
November 11	Simon Boccanegra
November 28	Simon Boccanegra
December 2	La Sonnambula
December 3	Simon Boccanegra
December 24	La Sonnambula
January 9	La Sonnambula
February 25	Das Rheingold
March 13	Peter Grimes
March 18	Peter Grimes
March 20	Adriana Lecouvreur
March 24	Adriana Lecouvreur
April 10	Peter Grimes
April 14	Peter Grimes

Reserve Parking Tickets for Jet Football Games at Shea Stadium – A limited number have been purchased by BERA. Notices, with instructions for buying these tickets, have been sent to all those who bought football tickets in July.

Classified Advertisements

Positions Available

STOCKMAN (1) - Supply & Materiel. Application Deadline: October 4, 1968.

Employees interested in applying for above positions should inform their Supervisor and file written request with Employment Office on or before deadline date.

Autos & Auto Supplies

61 PEUGEOT 404 - Body & running gear in fair cond, excel '66 eng. $200. Smith, Ext. 459.

3 TIRES - 7.75x15 (6.70x15) 2 snow, 1 reg on rims, fit a few cars, used 1 winter. $10 ea. M. Stephens, Ext. 653.

2 TIRES - 7.10x15 on rims, fit a few cars. $5 ea. M. Stephens, Ext. 653.

6 CYL CHEVY ENG - Fits '55, '56, '57 Chevy. $50. 281-5289.

66 OPEL CADET - Fastback, 2 dr, r/h, 4 spd console, wheel covers, new rubber, 21,000 mi. For fast sale $995. Ernie, Ext. 2934.

63 FORD FAIRLANE STATION WAGON - 6 cyl, std trans. $350. Ext. 7295, 286-1169.

55 PONTIAC - Std shift, V8, 4 good tires, 2 new snow tires, good running cond. Lydia, 751-2957, AT6-3962.

67 VW SEDAN - Radio, good tires, excel cond, 30,000 mi. $1275. Tony, Ext. 2430.

KARMAN GHIA BODY - W/all glass in perfect cond. Free to first taker. Ext. 665.

64 VW CONV - Excel cond. $650. Harry, 475-9790.

65 WILDCAT BUICK - 2 dr hdtp, green. $1800. 589-8533.

67 GMC TRUCK - ¾ ton, 20,000 mi, w/Ravella camper, 6 berths, toilet, hot water, shower, gas-elec refrig, oven, heater, excel cond. Ext. 2853, AT6-0798.

67 BUICK LESABRE - 20,000 mi, auto trans, ps w/w, 2 snows, all vinyl int. Tony, Ext. 7356, 727-0490.

66 FAIRLANE 500 XL - Blk vinyl top, bckt seats, ps/pb, auto trans w/console, mint mech cond. $1650. Hodge, Ext. 574, JU8-7211.

67 MUSTANG - 2+2 - V8, 3 spd, dual exhaust, h.d. suspension, ext pack, reverb, extras, 3 yr warranty, excel. $1950. B. Cahill, Ext. 2478.

58 VW - 2 dr sedan, blue, body good cond, no motor. $50. 732-4031.

65 CORVAIR 500 SEDAN - Auto trans, 6 cyl, good tires. Asking $650. 281-3133 after 6.

63 VW 1500 STATION WAGON - Good cond, new tires & muffler. Asking $600. P. Grand, Ext. 2481.

64 VW - Red, radio, excel cond. $795. AT6-9260 eves.

2 TIRES - 7.75x15, used less than 1500 mi; 2 7.75x15 snow tires; 4-15" wire spoke wheel covers, mounted on '56 Plymouth conv. $25 takes all. H. Rhodus, Ext. 2382.

64 RAMBLER CLASSIC - 4 dr station wagon, 6 cyl std, r/h, luggage rack, excel cond. $695. AT9-1780.

62 FORD RANCH WAGON - V8, auto trans, new tires, new battery, avail early Oct. $500. Tippe, Ext. 2241, 281-7611.

64 FORD CUSTOM - V8, auto trans, ps/pb, 80,000 orig mi, excel cond. Asking $650. 289-8528.

60 VALIANT - R/h, auto trans, recent valve pob, good tires, good mechanically, owner leaving country. $180 or best offer. J. Figuera, Ext. 7266.

62 VW BUG - 41,000 mi. $550. A. Gody, Ext. 2459.

MOTORCYCLE - Suzuki 250 cc, excel cond, incl all safety equip $400. E. McFadden, Ext. 318, HR2-0982.

66 VW CONV - Blue, radio, rear speaker, 26,000 mi, excel cond. Carol, Ext. 7732.

60 CORSAIR TRAVEL TRAILER - 16', "The Happy Wanderer," spare tire & axel hitch incl, not self-contained. $800 firm. E. Eichler, WA9-4876.

64 FORD FAIRLANE 500 - Auto trans, V8, r/h, in good cond. $775. Ext. 2151, 878-1471.

55 PLYMOUTH WAGON - Can be seen on site, avail 10/5, 15 mpg, 1 qt oil/400 mi. $50. Dave, Ext. 613.

65 HONDA DREAM MOTORCYCLE - 305 cc, white, saddle bags, windshield, many extras. $400. Ext. 639.

67 VW - Radio, rear opening windows, excel cond. $1325. Bill, Ext. 7777.

62 FORD GALAXIE 500 XL CONV - 292 V8, bckt seats, 3 spd auto on floor, new battery, new carb, still can't make it run. $125. 732-7479 after 6.

68 CAMERO - 327 V8, red/blk top, conv. $3200. Karen, Ext. 2342.

66 CHEVROLET MALIBU - Spt cpe, 327 cu in, red/blk, std shift on column. Sacrifice, $1700. 281-7785.

63 PONTIAC WAGON - 6 psgr, auto trans, 2 new tires, am/fm radio, pwr rear window, excel cond. 273-7816.

64 CADILLAC CONV - All pwr, air cond, excel cond. Ron, 473-3576.

64 FALCON WAGON - 2 new tires, battery, excel cond. $650 or offer. D. Crennell, Ext. 7324.

62 VOLVO 120-S - 4 dr sedan, excel cond, recent tune-up, 3 new tires plus 2 snow tires. $800. Ext. 2910, AT6-8807.

59 CITROEN - Yellow, 4 dr, semi-auto, all new tires, recent valve job & muffler. $100. Bill, Ext. 7460.

59 HILLMAN MINX - Rusty but reliable. $200. Ext. 2853, AT6-0798.

62 MORRIS MINOR CONV - $125. Nardi, Ext. 7243, AT9-3596.

Boats & Marine Supplies

18' CABIN - 2 bunks, head, w/40 hp elec start Johnson, plus mooring setup. $700. JU5-8322.

CROSBY YAWL - 25'x12½'x3½', excel sails, rebuilt Gray, sleeps 2, hull needs work. AT6-8372 after 7.

25' OWENS CABIN CRUISER - 1959, 185 hp, 332 hrs, sleeps 4, standup head, galley, many extras. $2200 firm. R. Farmer, Ext. 316, 281-7720.

14' FIBERGLASS BOAT - 800 lb cap tilt tariler, 10 hp Johnson motor, excel fishing rig in excel cond. B. Espensen, Ext. 7638.

19' FIBERGLASS SLOOP - Pearson "Resolute" #57, Ratsey main & jib, 6 hp Chrysler, bracket +2 tanks, many extras, entire outfit almost new cond. $2300. 732-3296 after 5:30.

BLUE JAY SAILBOAT - Needs some paint & varnish. First $350 takes. LT9-1342.

9' PRAM - "Hagerty," fully equipped. $50. Ext. 7630.

16' THOMPSON - 35 hp Evinrude, in water. $325. AT6-8544.

PAIR CAST IRON MUFFLERS - 2½" I.D., excel cond. $25. R. Baldwin, Ext. 2265.

32' BOAT - 115 hp Chrysler Crown, excel cond, head, bunk, must sell. $1195. Ext. 379, LT9-3269 after 6.

Miscellaneous

ZENITH RADIO - Fm/am, auto frequency control. $50. Tippe, Ext. 2241, 281-7611.

SWIMMING POOL - 18' dia.x4' deep, w/¼ hp anthracite filter & all access except ladder. $80. R. Hildenbrand, Ext. 7777.

SHOTGUN - Stevens Model B, dble barrel, bored, modified & in improved new cond. $75. B. Johnson, Ext. 573.

TENT TRAILER - Sleeps 4, fly & extras incl. Asking $240. Pfister, Ext. 2934, HR2-1409.

FUTURE HOME SITE - Approx ⅔ acre in newer section of Wading River, heavily wooded, quiet street, 15 min to Lab. Jim, 732-4712 eves.

SOUP CHICKENS - Live. $1 ea. Carl, Ext. 7440.

2 AMPLIFIERS - Dynakit Mark IV, perfect cond. Orig. $60 ea, sell for $30 ea or both for $50. Majestic, AT6-0025.

STEREO RECORD PLAYER - Garrard-Columbia, w/ twin speakers & solid state amplifier, all in walnut finish, 1½ yrs old. $115. Hodge, Ext. 574, JU8-7211.

PHILCO RADIO - Am/fm, 3 short wave & 1 long wave band radio, 2 yrs old. $40. Hodge, Ext. 574, JU8-7211.

MINIATURE FRENCH POODLE PUPS - 727-0490, 727-1066 after 5.

FIREPLACE WOOD - $40/cord; $25/½ cord. 325-0567, 727-0271.

CORNER SPEAKER ENCLOSURE - W/15" Altec-Lansing co-ax, also asst mono hi-fit componeits. Ext. 7453.

SQUIRREL MONKEY - W/cage & stand, loves to go for walks w/children. 732-7479 after 6.

MAPLE WOOD HIGH CHAIR - Good cond. $5. Ext. 419.

SPACE SAVING BEDRM SET - For 3 sm children, trundle bed, twin bed & book headboard, matching twin dressers. $50. Wegner AT6-8639 after 5.

ADMIRAL TV - Good working cond. $20. Gandini, Ext. 2427.

LG ROUND WOODEN TABLE - $15. Gandini, Ext. 2427.

NEW CUSTOM MADE DRAPES - Navy blue & white, 2 panels, triple width, length 90". Ext. 2296.

CLARINET & CASE - Old but good, very reasonable. Ext. 7142, 273-5574 eves.

ACCORDION - Mussi, 120 bass, 5 shifts, w/case. Sacrifice, $100. D. Pion, Ext. 351, 744-3004 eves.

DINETTE TABLE - Solid oak, grey color. Ext. 2165.

SEWING MACHINE HEAD - Kenmore, good cond. $20. Ext. 7166.

10" TRICYCLE - Good cond. $5. 732-5945.

CAN OPENER - Heavy duty elec, auto start-up & shut-off. Orig $18, will sell for $9. 732-5945.

FIREPLACE SCREEN - Copper color, standing style, std size, draw curtain Orig $30, best offer over $10. 732-5945.

KITCHEN TABLE - Formica top, w/4 chairs & leaf. Dave, Ext. 613.

BABY ITEMS - Playpen, car seat, table seat, carriage, lamp, stair-gate, portable crib-playpen-gate, toidey seat, plus misc. Reasonable. 732-5945.

LADIES BICYCLE - Full size, compl. needs tires. $5. F.J. Keute, Ext. 2580, GR5-2287.

ADMIRAL PORTABLE TV - 19", good cond. $30. V. Minkiewicz, Ext. 7274.

GERMAN SHORTHAIR PUPS - AKC reg, 6 wks old, 4 male, 2 female. GR5-1586.

TRICYCLE - In excel cond. $5. Ext. 2594.

$10 ROLLS OF SILVER QUARTERS - 1934P-1939P, 1940S-1954S, 1940D-1950D. Priced from $13 to $16.50. S. Wagner, Ext. 618.

17" CROSLEY TV - Good working cond. $20 or best offer. J. Figuera, Ext. 7266.

APACHE "BUFFALO" CAMPER TRAILER - 1964 w/ fly, sleeps 6, $450 firm; "Humphrey" 2-burner propane stove, 10 lb tank, regulator, hose, $35. H. Bumstead, Ext. 322.

LADIES BOWLING SHOES - Red, used 6 times, size 7, like new. $3.50. 744-6885.

AKC FEMALE COLLIE - 11 mos, tri-color, breeder's terms. Nancy, AT6-9009 eves.

ROTARY MOWER - 20", 2½ hp, good cond. $20. Bill, Ext. 2474.

WET SUIT - Med size, used 4 times, 3 mos old, Healthway. Cost $70 new, $50. Mike, 585-1192.

2 ACRES - 500' ft off Jericho Tpke on Wilson Blvd, Gordon Heights. $6000. 732-3443.

SINGER SEWING MACHINE - Cabinet incl, excel cond. $50. 732-4031.

SHALLOW WELL PUMP - Barnes, ½ hp, compl w/30 gal tank, water softener, pressure switches, check valves, etc, excel cond, 3 yrs use. $50 firm. Harry GR5-3785.

FORMICA TABLE - W/leaf, 4 cushioned chairs, excel cond. 289-5607 after 5:30.

MALE BOXER - 2 yrs old, AKC, fawn/white, excel w/ children, good watchdog. $75. Ralph, Ext. 7400, AT3-4452.

BLK MALE CAT - 1 yr old, trained, good w/kids & dogs. Free. Ralph, Ext. 7400, AT3-4452.

UPHOLSTERED ARMCHAIR - $25. 286-0428.

MASON JARS BY THE DOZENS - Make offer & take them. 289-1748.

2 FORMICA TOP END TABLES - 1 coffee table, 1 round picture window table, blond oak finish, excel cond. $50. 289-1748.

REMINGTON '03-3A - 4 groove barrel, excel big game rifle. $45. M. Caunter, Ext. 7376.

GARAGE-YARD SALE - Fri & Sat, Sept 27-28, 10 a.m.-5 p.m., 4 Beaverbrook Dr, Brookhaven. P.C. Rogers, AT6-9431.

ONLY 2 LEFT - Free grey kittens, part angora. J. Weeks, Ext. 346, 751-1149.

SHOTGUN - 12 ga. auto High Standard, 30" barrel, full choke w/vent rib. $70. AT6-8517 after 6.

GRETSCH GUITAR - Nashville, excel cond, w/case. $300. 475-3707 after 3.

WEDDING GOWN - Traditional style, Italian silk & Chantilly lace, cathedral train, chignon band headdress w/3 tier silk illusion veil. 744-2005 after 3.

2 CLOCK RADIOS - 1 GE, 1 Benith, $5 ea; GE iron, $2. Ann, 286-2280.

COLORADO BLUE SPRUCE - 18-24". $2.50-$3. E. McKenna, Ext. 7187, MO6-6753.

WOODED CORNER LOT - Approx ¾ acre in Yaphank, 2½ mi from Lab. $3500. R. Buteau, AT6-9262.

MARINE BAND CONVERTER - Listen to the boats, Gonset model 3163. $15. Ext. 7166.

FM TUNER & SPEAKER - $10. Ext. 7166.

BICYCLE SEAT - For sm psgr on lg bike. $5. Ext. 2853, AT6-0798.

Houses

SHIRLEY - Tangier, 3 yr old cape cod, 2 bedrms, exp attic, fireplace, att garage, roofed patio, landscaped corner, to settle estate. 281-6340 after 6.

WADING RIVER - 2 bedrms, 1½ baths, din rm, liv rm, porch, separate rentable apt in house, nice garden, 2 acres lot. $28,000. 929-6083 weekends only.

6 RM RANCH - 3 bedrms, fully landscaped, swimming pool, screened in porch, greenhouse, 6' fence around backyard, 4 yrs old. $23,900. AT6-9304.

BELLPORT - 3 bedrm ranch, light airy rms, lg liv rm, modern eat-in kitchen, full basement, oversized att garage, lovely wooded ½ acre. $17,800. AT6-8724.

PT JEFF STATION - 2 bedrm cape cod, mod kitchen, enclosed porch, fireplace, oversized dble garage, walk to shopping. HR3-2292.

PATCHOGUE - 3 bedrm cape cod, fenced corner, near schools, stores, RR. Ext. 2816, GR5-7372.

SHIRLEY - 3 bedrms, 2 baths, lg rec rm, garage, breakfast bar, w/w carpet in liv rm, etc, basement, must sell, 75x120 lot. $17,000. Abate, Ext. 7504.

For Rent

4 RM PENTHOUSE APT - Center Moriches, water view, furn w/util, single only. $125/mo. 878-0214.

HIGH WALL TENT - Try brisk fall weather camping for fun & health. 273-6436.

SHIRLEY - 2 bedrm house, furn or unfurn, tile bath, fireplace, cellar, att garage, convenient to Lab & shops. $185/mo. 281-6340 after 6.

3 RM APT - Center Moriches, 2 bedrms (air cond), liv rm (pullman kitchen), priv entrance near water, dock facilities. Ext. 7629.

2 BEDRM FURN HOUSE - Garden, garage, avail 10/10. $160/mo incl all util. 281-8326.

3 BEDRM BRICK HOUSE - Furn, attached garage, closed porch, 2 baths, washer, dryer, TV, etc, on ½ acre. Ext. 7114.

3 BEDRM RANCH - Shirley, 7 min from Lab. $135/mo. 281-5827.

3½ RM APT - Wading River, priv community & beach, util incl. 744-2821.

Wanted

HOMES - For 3 male blue-eyed kittens, 6 wks old, 1 orange, 1 brown & white, 1 gray & white. 281-5289.

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

HOME - For blk & white puppy, female, 6 wks old. Carl, Ext. 7440.

4 TIRES - 2 7.35x15 & 2 9.00x15, w/w, Ford rims, very reasonable. 732-4031.

SOMEONE TO VACUUM, DUST & SCRUB - In our home, 1 day/wk, Sayville. Ext. 379, 589-3269 after 6.

DIMES, QUARTERS, HALF-DOLLARS - Dated '64 or before any quantity or condition. Will pay 8% over face value. Belfiore, Ext. 7294.

SLIDE PROJECTOR - For 120 size transparencies, age no factor as long as it works. Sue, Ext. 388.

CANNING JARS - Pints and/or quarts. HR3-9111.

HOMES - For 4 kittens, 7 wks old, 1 white, 2 blk, 1 gold. George, Ext. 301.

GIRLS - Who want fun & relaxation, join our bowling league on Tuesday eve in Patchogue. Jen, Ext. 2114.

OLD DOLLS - Top dollar paid. GR5-4199.

CLEANING WOMAN - Reliable & trustworthy, 1 day/wk, own trans, steady, E. Patchogue. GR5-8658 after 6.

14" WHEELS - For '66 Rambler Ambassador. GR5-8658 after 6.

1 CORD OF CUT HARDWOOD - For fireplace, delivered. GR5-8658 after 6.

HOMES FOR KITTENS - 6 wks old, 4 males, 1 female (2 are bobtailed), litter trained. Bornstein, Ext. 7411.

FRENCH TUTORING - Adults, learn French or brush up with an experienced native teacher. M. O'Connor, 286-9725.

DIMES & QUARTERS - 1964 or before. Paying 10% over face value, halves 13% over face. S. Wagner, Ext. 618.

DIRECTOR AND/OR SOCIAL WORKER - For Bay Area Head Start, college degree & early childhood teaching experience or social work experience preferred. G. Levine, 878-0248 after 6.

STUDENTS - Who wish to learn the clarinet, lessons given at my home. Mac, Ext. 439.

USED TENNIS RACQUET - Steel or alum, 4½-4⅝ grip, reasonable cond. J. Shreeve, AT6-8807.

HOME - For 2 yr old purebred male beagle, needs a new home w/room to run. AT6-1372 after 4.

INFANT'S CAR SEAT - In good cond, reasonable. 878-2239.

SMALL STROLLER - Phelan, 475-4661.

15" TRI-AX SPEAKER - University Model 315C; 30" Carlson enclosure. Ernie, Ext. 2934.

Carpools

MASSAPEQUA VICINITY - Looking for rider/driver for 5th man in carpool. D. Blackmur, Ext. 2554.

PAYING RIDER - Needs ride from Waverly Ave, Patchogue vicinity. Marcia, Ext. 2380.

DRIVERS WANTED - To complete existing carpool from Pt Jeff Station. Casey, Ext. 2745.

Lost & Found

LOST - Tennis racquet at court or locker rm, Tues 9/17, green cover from Bethesda Sport Shop. G. Latham, Ext. 386.

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 employees 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.

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(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