

BULLETIN BOARD

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The 1968-69 Brookhaven Council

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Seated, left to right: L. Corliss, W.W. Shreeve, N.P. Samios (Chairman), M.Q. Barton, and J. Chernick. Standing, left to right: G. Parzen, M. Perlman, V.J. Emery, T. Kycia, J.M. Olson, W.S. Hillman, and D.H. Gurinsky. Members not shown in photograph are R.B. Marr, J.S. Robertson, and R. Nathans.

Samios Council Chairman

N.P. Samios, Physics, took office as Chairman of the Brookhaven Council at a meeting of the Council on March 11. He succeeds Alfred Wolf of Chemistry. The Council acts as an advisory group reporting directly to the Director of the Laboratory, Dr. Maurice Goldhaber. It meets monthly to consider problems of general Laboratory interest.

The five newly elected members of the Council are: V.J. Emery, T. Kycia, and Robert Nathans of Physics; J.M. Olson of Biology; and M. Perlman of Chemistry. Former members continuing to serve are N.P. Samios, Chairman; M.Q. Barton, Accelerator; J. Chernick, NED; R.B. Marr, Applied Math; J.S. Robertson, Medical; W.W. Shreeve, Medical; L. Corliss, Chemistry; D.H. Gurinsky, NED; W.S. Hillman, Biology; and G. Parzen, Accelerator.

Halik Elected To NY Science Academy

Eugene E. Halik, Mechanical Engineering Division, was elected recently to active membership in the New York Academy of Science. In receiving this honor, Mr. Halik was presented with a citation for his "sustained interest and creditable contributions toward the advancement of science."

Before coming to BNL, Mr. Halik was Chief Engineer with Associated Universities in charge of the engineering of the 140-foot Radio Telescope at the National Radio Astronomy Observatory in Greenbank, West Virginia. This telescope is the most precise instrument in its category.

In February 1963, Mr. Halik joined the BNL Mechanical Engineering Staff and is attached to the AGS.

Prior to joining AUI in 1958, Mr. Halik was with Loewy Construction Company, a division of Baldwin-Lima-Hamilton, where he was co-designer of the largest forging presses ever built (35,000 and 50,000 tons), and 8000 and 12,000-ton extrusion presses. He engineered and was responsible for the erection of a semi-automatic 3000-ton planishing press which is the fastest in the world, developing 104 strokes per minute and maintaining a preselected penetration stroke within 100-4500 psi pressure during programmed operation.

State to Award Cash To Nuclear Technician

To acknowledge the important role that nuclear technicians play in the development and utilization of atomic energy, and to recognize individual achievement in the nuclear technician field, the Atomic and Space Development Authority will at a suitable occasion in the Spring of 1968 make a New York State Nuclear Technician Award carrying with it a \$1000 honorarium.

Any nuclear technician is eligible to receive the award who is (1) a resident of the

Puleston To Tiawan For Atoms-In-Action

Dennis Puleston, Information Division Head of BNL left on April 3 for Taipei, Taiwan to serve as Director of the Technical Information Reference Room at the Atoms-in-Action exhibit.

This is the fourth time that Puleston has served in this capacity with the AEC travelling exhibit. In past years he has gone to Bangkok, Thailand; Utrecht, the Netherlands; and Ankara, Turkey.

As in the past, Mr. Puleston will send informal reports to the *Bulletin Board* about the exhibit, and of the experiences he has while living in a foreign land.

No More Rushing

Starting Friday, April 12, Gustav K. Barwald, Cabinet Shop Foreman, will start to slow down his daily schedule.

Since March 10, 1947 Gus has been working at BNL, and according to him, "Everything I have worked on has been a rush job. Almost everyone that brings work in wants it yesterday."

When Gus retires next Friday he and his wife Erna will put their Babylon house on the market and will go to their Florida home to live. There will be plenty of time for fishing, as the Barwald house has a river in front of it and a canal at the side.



During World War II Gus served with the Engineers in the ETO, and then moved to the Pacific with the Signal Corps for the invasion of Okinawa, where he was wounded. Back in the States he became a vocational instructor at Mason General Hospital and then was hired to work at BNL to build a model of the Cyclotron.

Radio Telescopes Span Ocean For Experiments Examining Outer Space

Green Bank, West Virginia. Fifteen scientists from six U.S. institutions and Sweden reported yesterday, at a meeting of the American Astronomical Society in Charlottesville, Virginia, on the results of two experiments performed in late January 1968 between four radio telescopes located in North America and Europe. The net effect was to provide astronomers with a radio telescope having a resolution power equal to an antenna stretching from California to Sweden, or very nearly the diameter of the earth.

One experiment measured the angular diameters of more than a dozen radio sources, most of which were quasars, believed to be located at the far extremities of the observable universe. The other experiment measured the angular size of peculiar speck-like sources of radiation found near the edge of a large mass of glowing hydrogen gas 6000 light years from the earth in the constellation of Cassiopeia.

Astronomers observed with the 140-ft radio telescope of AUI's National Radio Astronomy Observatory, Green Bank, West Virginia, the 85-ft telescope of the Chalmers University of Technology at Onsala, Sweden, the 85-ft telescope of Massachusetts Institute of Technology-Lincoln Laboratories, and the 85-ft telescope of the University of California at Hat Creek, California.

The goal of both experiments was to find how small the emission sources really are. Both appear to radiate fantastic amounts of energy from extremely small volumes of space, and astronomers and physicists can better study the mechanism that produces the radiation once the size of the emitting volume is known. The ability of two or more radio telescopes to measure diameters of these small sources improves the farther apart the antennae are located, so experiments of a transcontinental or transoceanic nature give the best results. In the experiment between Green Bank and Sweden, the combination of signals from the telescope at each end of this very long baseline experiment allowed discrimination between opposite edges of a radio source in space separated by just six ten-thousandths of a second of arc. This resolution is equivalent to the ability to measure the size of a postage stamp in Sweden as seen from Green Bank, or to measure the size of an automobile on the moon.

The technique of using antennae widely separated on the earth is very new. It was (continued on page 2)

Lab Techs Awarded AEC Scholarships

Frank J. Thornhill, age 36, and Lewis A. Jacobson, age 35, both technicians in the Accelerator Department, received AEC scholarships with an estimated value of better than \$25,000. The scholarship will allow each to attend the university of his choice as a full-time student with all tuition and fees paid while remaining on a full-time salary basis at the Laboratory with all fringe benefits for himself and family.

The various AEC laboratories, such as BNL, in cooperation with the Department of Nuclear Education and Training of the AEC, award 12 Technician Scholarships



Frank J. Thornhill

each year to qualified employees of AEC laboratories. Appointments are made for 12 months and renewable for up to an additional 12 months. Candidates must be full-time employees and be able to complete their bachelor's degree requirements in two or less calendar years. Other considerations include length and diligence of service with the laboratory, personal educational effort to date with an academic standing of B average or better, availability to start as a full-time student with the



Lewis A. Jacobson

1968 Fall Term, and interest in continued employment in an AEC laboratory.

The purpose of the program is to provide for selected laboratory personnel who have already demonstrated their technical proficiency and desire for continued education the opportunity to complete their bachelor's degree requirements.

Frank Thornhill has been at Laboratory since August 8, 1957, and currently holds (continued on page 2)

Scholarships Awarded To Lab Technicians



At a luncheon ceremony at the Brookhaven Center on Tuesday, April 2, formal award of scholarships was made to two BNL technicians, by Laboratory and AEC officials. Dr. Maurice Goldhaber, (left) Director of BNL presents award to Frank Thornhill as Mrs. Thornhill (third from left) looks on. At the right, AEC Manager of the Brookhaven Office, Emery L. Van Horn presents award to Lewis Jacobson as Mrs. Jacobson (third from right) watches. Photo by Rosen

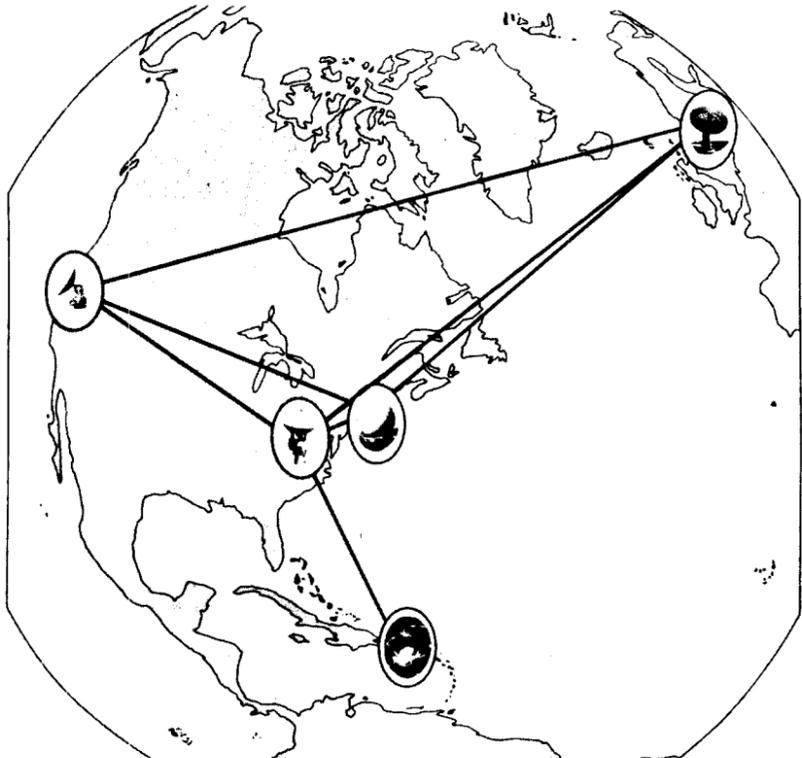
Intercontinental Telescope Network

(Continued)

developed only a year ago by the National Radio Astronomy Observatory in collaboration with scientists from the Ionospheric Observatory, Arecibo, P.R., Massachusetts Institute of Technology, and the University of California, San Diego. The first successful very long baseline experiment in 1967 involved the above telescopes and also antennae at Maryland Point, Maryland, in Canada, and elsewhere. Intercontinental antenna separations are made possible through use of independent radio telescopes that are not directly connected together but which are precisely synchronized by very accurate atomic clocks located at each telescope. The very long baseline telescopes record signals simultaneously from the same region of space on magnetic tapes

located at each telescope, and the tapes are later brought together and processed in a high speed digital computer.

Participants in the January very long baseline experiment include B.G. Clark, K.I. Kellermann, C. Bare of NRAO, B.F. Burke, A.H. Barrett, and J.M. Moran of MIT, A.E.E. Rogers and J.A. Ball from Lincoln Laboratories, O.E.H. Rydbeck, B. Hansson, J. Ellder, B. Höglund and E. Kollberg of the Onsala Space Research Observatory, Chalmers Institute of Technology, Sweden, M.H. Cohen of the University of California, San Diego, D.L. Jauncey of Cornell University, D.D. Cuda-back of the University of California, Berkeley.



Locations of radio telescopes that participated in the January 1968 Very Long Baseline (VLB) experiment between Hat Creek (far left, University of California, 85-ft telescope), Green Bank, West Virginia (middle left, National Radio Astronomy Observatory, 140-ft telescope), Lincoln Laboratories, Massachusetts (middle right, MIT, 85-ft telescope), and Onsala, Sweden (upper right, Chalmers University of Technology, 85-ft telescope). The Arecibo Ionospheric Observatory's 1000-ft telescope (lower) in Puerto Rico, participated in earlier VLB experiments.

Here and There

Dolores del Castillo

R.C. Anderson (Office of Scientific Personnel) gave the banquet address at the Junior Science Symposium held in Asbury Park on March 29. His address was entitled "Science as the knowledge of Consequence."

Eric B. Forsyth (Accelerator) was the inventor of U.S. Patent 3,375, 452, issued to the USAEC on March 26, 1968, for Ferrite Adjustable Kicker Magnet for Extracting Beams of Charged Particles.

The Nuclear Engineering Department is well represented at the 155th National Meeting of the American Chemical Society being held in San Francisco this week. J.J. Riley is presenting a paper entitled "Reaction of Hydrogen with Mg-Ni Alloys." Jack Fager's paper is entitled "Photoisomerization of Perfluoroaromatic Compounds in Condensed Phase." J.J. Egan will deliver a paper on "Thermodynamic Properties of Some Binary Fused Salt Mixtures from emf Measurements." A paper entitled "On the transport of fission products from Sodium" will be given by A.W. Castleman, Jr. also attending the meeting are J. Tveekrem, F. Horn and R. J. Heus.

Arnold Becker (Biology) and Maurice Perlman (Chemistry) took part in the Kings Park Senior High School Career Day, April 2, discussing with the students the requirements for and opportunities in a science career.

On April 4, Roy Rubinstein (Physics) participated in Career Day at the Westbury High School.

V.R. O'Leary (Budget Office) has been appointed chairman of the "Support Our Servicemen" campaign in the Three Village area. The appointment was made by Leslie Weiss, chairman of the Suffolk County Chapter of the American Red Cross.

Murrey Goldberg (NED) presented a colloquium entitled "Collective Evaluations Via Inelastic Deuteron Scattering" at Brown University, March 21.

George Folls (Systems & Data Proc.) has recently undergone surgery and is making a satisfactory recovery.

Masao Takahashi of the Japanese Electric Power Industries will be at the Laboratory on April 9 to discuss sodium handling.

Gunnar Randers from Kjeller, Norway, will visit at the Laboratory on April 10 to discuss R & D safeguards.

Harry Palevsky (Physics) recently returned from Rutherford Laboratory where he participated in the Symposium on the Use of the NIMROD Reactor for Nuclear Structure Physics, March 20-24. He presented a paper entitled "Experimental Work Using Protons." He also visited at CERN, Switzerland and CEN, Saclay for discussions on experiments being done to measure π -nucleus interactions.

Please Watch Your Feet

The Safety Shoe Room will be closed Thursday morning, April 11. Safety shoes will be issued as usual on Monday, April 8, and also on Monday, April 15.

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Arrivals & Departures

Arrivals

Alfred J. Deneuve.....Applied Math
James L. Fox.....Instr. & H.P.
Norman M. Fewell.....Accelerator
Marilyn K. Hunt.....Applied Math.
Raymond E. Lawrence.....Applied Math.
Ruth A. Uriarte.....Instr. & H.P.

Departures

Kenneth R. Fannin.....Applied Math.
Yoshihiko Hirono.....Biology
George Nugent.....Mech. Engr'g
Richard A. Rodemer.....Pl. Eng. & Plan.
Donald M. Rose.....Pl. Eng. & Plan.
George M. Tisljar-Lentulis.....Medical
Ursula S. Tisljar-Lentulis.....Medical
David J. Wick.....Accelerator
Cheryl Ann Williams.....Instr. & H.P.
Christina A. Williams.....Physics
Robert O. Zoller.....Mech. Engr'g.

Philip B. Shevlin who had been on Military Leave of Absence since April 1966, returned to work in the Chemistry Dept. on April 1, 1968.

Service Awards - March 1968

Twenty Year

Richard T. Adams.....Reactor
Arthur J. Beckwith.....Shops
Silvio Bello.....Plant E&P
Lewis R. Burchill.....AUI
Paul Colsmann.....Reactor
Lloyd O. Davis.....Physics
Norman Elliott.....Chemistry
Samuel A. Goudsmit.....Physics
Edwin Hagelberg.....I & HP
Lee Roy Jefferson.....Nuc Engr
Stanley G. MacCormack.....I & HP
Malcolm H. McCrum.....Accel
Roderick D. Rohrback.....Accel
Arnola R. Rose.....Plant E&P
George A. Schoener.....Nuc Engr
Joseph E. Smith.....Physics
Charles Tomesch.....I & HP
Bruno Wiedermann.....Mech Engr
Walter Wilshusen.....I & HP

Ten Year

Robert P. Alvino.....Accel
Walter F. Bigelow.....Shops
Henry Boomer.....Plant E&P
Chester J. Bubka.....Shops
Stanton H. Cohn.....Medical
Helen L. D'Ambrosio.....Director's
Otto Eisold.....Accel
Benjamin C. Frazer.....Physics
Ernest Hart.....Shops
Madeline G. Kinney.....Appl Math
Harold E. Knudsen.....Accel
Robert I. Louttit.....Physics
Joseph Mammina.....Shops
Joseph W. Mead.....I & HP
Carlyle Murray.....Accel
Morton Rosen.....Photog & GA
Arthur Z. Schwarzschild.....Physics
Elizabeth K. Shaw.....Biology
Gilbert G. Spira.....Nuc Engr
Mary Spirito.....Nuc Engr
Henry H. Windsor.....Nuc Engr
Anthony J. Wisowaty.....Physics

Volleyball Night April 8th

In the play-off to determine the second half winner, the Spikers defeated Atom Spikers I, 21-11, 21-14, in two well-played games. A major factor for the victors was the jumping (!), spiking and hustle of Steve Lewkowitz. Coupled with their first half win, the Spikers thus take the league championship.

There will be a league Volleyball Night on Monday, April 8th, complete with cold tap beer. Atom Spikers I will play Atom Spikers II for the runner-up spot in the league; the Spikers will play an All-Star team. When 5:30 rolls around Monday, come and join the action, and see if Lewk keeps jumping.

Remember, Free beer. Spectators welcome.

AEC Scholarships (continued)

the rating of Technical Specialist in the Accelerator Department. He has been attending evening classes at Suffolk County Community College since 1962, and has accumulated 70 transferable credit hours toward a bachelor's degree. He is planning to attend either the State University of New York at Stony Brook, the Brooklyn Polytechnic Institute, or Long Island University as a full-time student to complete his degree requirements in engineering science.

He is married and lives in Port Jefferson Station with his wife Edy and their five children, Judith, 8; Gary, 7; Dave, 6; Gayle, 5, and Chris, 18 months.

Lewis Jacobson, who was a nominee for a scholarship last year, has been employed at the Lab since June 4, 1962, and currently holds the rating of Senior Technician in the Accelerator Department. Since 1962, he has attended Adelphi-Suffolk

College as a part-time student and has accumulated 70 transferable credits towards his bachelor's degree. He is planning on attending Cornell University to complete his requirements in electronic engineering.

He is married, and he and his wife Ellen, also live in Port Jefferson Station with their eleven year old daughter, Wendy.

Previous winners include: Richard Isler in 1966, currently attending the University of Illinois, and will graduate this year with a bachelor's degree in Applied Math; George Meinken, in 1966, currently attending the Rensselaer Polytechnic Institute, and will graduate this year with a bachelor's degree in Chemistry; Norwood Greenlaw in 1967, who will graduate this year from Long Island University, C.W. Post College with a degree in Electronic Engineering; Dean Easler in 1967, who is attending the University of Illinois, and expects to receive his degree in Electrical Engineering in 1969.

Ladies Plan Tea To Be Held May 7



3-422-68

On Tuesday, March 12, 1968, a luncheon was held at the Brookhaven Center for the area chairladies and co-chairladies of the Hospitality Committee. Mrs. Polly Van Horn presided at the meeting which was held in order to make plans for the Newcomers' Tea. The date selected is May 7, and the Tea will be held from 3 to 6 p.m. at the Brookhaven Center. An added attraction this year will be a fashion show sponsored by the Charlotte Shops of Sayville.

Sheehan, Leonard Newman, Sanford Earle, George Vineyard, Joseph S. Washburne, J. Cottingham, David Gurinsky, E. Church, R. Uphoff, E. Hammond (new BNL representative), B. Kohler (past BNL representative), E.L. Van Horn (new Chairman), Jack Chernick (past Chairman), Maurice Goldhaber, Robert Chase, Clarence Pittinger, Ronald Lank-shear, Stanton Ehrenson, Eugene Jablonski, K. Walther, Edward Sayre, Rodney Cool, Lawrence Hanks, R. Stoenner, J. Desmond, Cesar Sastre, Carl Plateau, Raven McKenzie-Wilson, Martin Zucker, James Tveekrem, and Charles Yax.

Going clockwise from the left front table are the Mesdames: Thomas

Facade Cast In Rehearsal



Sheila Buck rehearses the ensemble for one of the massive finales of Facade.

Facade

Brookhaven/Facade is now entering its third week of rehearsal. And as of this moment, the entire cast is finally assembled . . . and a real collage of talent they are from every far-flung corner of BNL.

Temperment being what it is, we'll have to list them in alphabetical order . . . I couldn't stand another festival of pain. Also, ladies first, that's the American Way.

Cast Ladies

- Pat Campbell (spouse at Ap. Math)
- Shelby Jessup (Physics)
- Lorraine Kahane (spouse at Ap. Math)
- Jackee Kelly (Ap. Math)
- Vicki Levis (Phys. Rev. Letters)
- Julie Peierls (spouse at Physics)
- Elaine Rowland (Chemistry)
- Ginnie Sayre (Administration)
- Virginia Walker (spouse at Accel.)
- Catharine Wingate (I. & H.P.)

Cast Men

- Scott Andrus (guest at Physics)
- John Binnington (Res. Library)
- Richard V. Brown (Chemistry)
- Richard V. Brown, Jr. (Dad in Chem.)

- George Counadis (Medical)
- Geoffrey Hind (Biology)
- Joseph Kahane (Ap. Math)
- B.E. Lautrup (Physics)
- Bruce Alan Martin (Ap. Math)
- Ed Sayre (Chemistry)
- Charlie Zavesky (Cyclotron)

Director Ron Peierls is rehearsing this cast through some of the funniest words and music we've ever heard. And set designer, Paul Kelly, is cackling with joy as his brain-child takes form on the Theatre's stage.

It isn't often that an original musical revue is performed in Suffolk County. In fact, this is the very first at BNL since 1949's *Life and Half-Life*, but, like everything else, *Facade* is bigger in conception and sure-to-be better in performance. We hope you're planning to attend. And also, we call your attention to the Thursday performance . . . that's new too. The dates are Friday and Saturday, May 3 and 4, and Thursday, Friday, and Saturday, May 9, 10, and 11.

Now back to our plot. In the second act a half-naked . . . oh I forgot. Forget it. —Tony Nappi



Director Ron Peierls (right) consults with cast members Julie Peierls (left) and Dick Brown (center) on a musical finpoint. Photos by Rosen

Al Hirt's Fame Grew With A Switch From Classical to Dixieland Music

Like Topsy, he just grew. Considering Al Hirt, this description might be the physical man, an Everest of a figure whose weight hovers between 275 and 300 pounds. It is, however, meant to suggest the phenomenon that his career has become.

Al Hirt was born in New Orleans, November 7, 1922, the son of a New Orleans detective. His beginnings were humble, but his parents encouraged his interest in and study of music. Curiously, in the city where jazz was born, Al's interest in the trumpet asserted itself toward the classics initially. In 1940, he temporarily left New Orleans to study serious music at the Conservatory of Cincinnati on a scholarship.

World War II came along, and Hirt entered the Army in 1942. Before he was shipped overseas, he married Mary Patureau. When the war ended, he was honorably discharged as a sergeant and returned to music, touring with such bands as those of the Dorsey brothers, Ray McKinley and Horace Heidt.

Hirt Has Large Family

But Hirt is a family man in a big way (he now has eight children) and both he and his wife are New Orleanians, so they gave in to their homesickness for "the City that Care Forgot" and flew home, and in so doing, "blew" what was a promising career. In New Orleans, Hirt was a trumpeter among many trumpeters, the supply far exceeding the demands. The versatility which was eventually to bring him fame was at this point a handicap. The only really going music in New Orleans at the time was Dixieland, and although this assuredly has contributed to Hirt's talent and a lot it had rubbed off on him in his youth, he was not a Dixieland purist.

Hirt worked weekends for a Bourbon Street club called Pier 600. His name began to grow in New Orleans. Periodically, he would be asked to play at summer concerts of the New Orleans Philharmonic, not only popular songs but classical as well.

In 1959 Monique Van Vooren and her husband (and manager) Gerald Purcell arrived at the club one evening. Purcell



took one look and a longer listen and booked Al into the Dunes at Las Vegas.

Al Becomes Star

This time Al was not just the lead trumpet in a name band; he was the star. The engagement was so successful that Hirt was given a spot on the Dinah Shore TV show and handed a recording contract with RCA Victor. From then on his career has snowballed.

Hirt still insists on spending most of his time in New Orleans with his family. The Pier 600 soon lost its identity and everyone called it "Al's Place." In 1964, Al realized the dream of a lifetime when he bought it, completely rebuilt and refurbished the interior, and opened the smartest club on Bourbon Street - Al Hirt's Place.

BERA is happy to have been able to engage Al and his band for your entertainment and pleasure. So do come to the theatre on Sunday, April 28th for this spectacular night. Tickets are on sale at the recreation office at \$5.00 for employees and family, \$6.00 for guests. Hurry, there aren't many left.

Softball Night April 19th All Employees Invited

by Tom Lee

This year's softball activities will get off to a start on the evening of April 19th (Friday) at 5:00 p.m. at which time Softball films and possibly last year's World Series films will be shown. We will also conduct a conditioning session of free beer and hamburgers along with the film.

F. Flannery and his committee along with G. Sabine have gotten Charles Boccia (ASA-American Softball Association - for Long Island) and several of his staff to come over and discuss softball rules and interpretation with those present.

As in the past, the Lab softball program is set up for all - the outstanding, the good, the fair, and the rest of us. Keeping this in mind, join a team now and enjoy the summer.

Entry deadline - April 11th for last year's teams; April 16th for new teams. Player's pool is at the Recreation Office - sign up now.

"Is it true" . . . the Batmen have a Robin this year? The Old Timers are on a youth kick - only have to be 35 to play? The Floorwalkers are still walking?

The Thing In The Spring

One day this spring, in the middle of April, volunteers from the suburbs will join local residents in the Bronx, Manhattan and Brooklyn in a day-long session of backyard and basement cleaning, repairing and painting, and learning to understand how the inner city residents live.

Last year over 1000 residents and volunteers worked together in a day of renovation of 103rd Street in East Harlem for a similar event. Since then, the residents have formed a block association that has continued to operate in maintaining the gains that were made during the one-day affair.

Those who want to join in this enriching experience may get further information from Claire Hull, Medical, who has circulars with full descriptions of the project.

Bowling News

by Pat Towey

End of Season Schedule

Week of April 15 - Last week of regular league play

Week of April 22 - Sweepstakes - Buffet (After bowling)

Week of April 29 - League roll-offs (3 games)

Friday, May 3 - Rainbow Tournament - Port Jeff Bowl (includes secretaries, Reps and Officers)

Saturday, May 4 - BNL Championship - Men and Women at Port Jeff Bowl, starting time 2:30 p.m.

Saturday, May 11 - Bowling awards evening at BNL Gym, 8:00 p.m.

Now that you have read the calendar - let's have a meeting. **Volunteers arise** - first meeting for preparation for Awards Night will be held tomorrow, Friday, April 5 at noon in the Rec Office. Bring your ideas and **bring a friend**. Let's all work together.

Slo-Break Basketball

In last Thursday night's action, the Biology-Highballs game produced the usual excitement. When the overtime was over, Biology, with Ira Ames hitting a basket with 7 seconds left on the clock, won 41-39. Bill Studier was high man for Biology with 9 points, while Dave Menago had 11 for the Highballs. Medical continued on top for the second half in the Universities League by downing the Stratums 42-32. Juan Figuera had 17 points for the Stratums, as did Ed Gill for Medical.

AMD proved it was the best in the Associated League in both halves by taking the Old Timers 60-50. Jake Leventhal had 26 points for AMD, while Herm Haller had 25 for the Old Timers. The Rat Pack downed Physics 32-29 in another close game. George Oldham had 11 points for the Pack; Merrill Hughes scored 15 for Physics.

BERA Film Series

Thursday, April 11 - 8:00 p.m. - Lecture Hall

Ivan The Terrible

Perhaps one of the Old-Russian monarchs most mistreated by history, Ivan The Terrible, (1530-1584) was really a good guy. Squabbled over by the Boyars, but infused with the responsibilities and dignity becoming a Christian ruler infused by his Mentor, Makari, Ivan had fine intentions upon becoming Tsar of All Russia in 1546. He instituted land reforms and streamlined the bureaucracy.

He encouraged the development of a strong landed gentry by granting vast estates to feudal lords, but power over them was not inherited; it had to be earned. All these things - which most of us never knew before - are presented in a compelling movie, the last complete work of Sergei Eisenstein in collaboration with Prokofiev on the musical background and Tisse and Moskvin on photography. The film is a tour de force for Eisenstein; he was at the height of his talents in creating cinematic effects. Suspense, intrigue, and passion are skillfully depicted by the master director. Next Week: Vart II - The Tsar's Downfall.

Short: Fish Market

Written and directed by Leroy Stone and photographed in New York's Fulton Fish Market, the film follows the fish from the dock to dinner.

Movie Tonight: Breathless

Personnel Services

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

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

Tickets and Reservations Available - Theatre tickets may be purchased at a 20% discount and reservations for dinner/theatre may be made at a 10% discount. Schedules and prices are posted in the Recreation Office. All orders must be placed in person at the Recreation Office, and accompanied by a check or money order made payable to the theatre at least two days in advance.

Mineola Theatre - Now through April 17 "Beyond the Fringe"; April 19-28 Herschel Bernardi in "The World of Sholom Aleichem."

Wedgewood Dinner Theatre - Now through April 7 Tom Poston in "A Funny Thing Happened on the Way to the Forum"; April 19 - May 26 Tony Martin in "Guys & Dolls."

Westbury Music Fair - Schedules at the Recreation Office.

Discount Exchange Tickets will be available at the Recreation Office for the following events: **Madison Square Garden** - April 3-May 9 Ringling Bros. Barnum & Bailey Circus.

NY Coliseum - April 3-7 International Photography & Travel Fair; Now through April 7; 12th Annual International Automobile Show.

Calling All Mets Fans

There are still many good dates available for Mets baseball games this season. Some of the early games still left are: April 21 - Los Angeles, May 3 - Chicago, May 17 and 19 Atlanta, and the Mayor's Trophy Game against the Yanks on May 27.

Classified Advertisements

Autos & Auto Supplies

62 MERCURY - Monterey, custom 4 dr, hd tp, 8 cyl, r/h, w/w tires, excel cond inside & out, A-1 running cond. \$595. 281-6732.

MOTORCYCLE - Triumph, 650 cc, black beauty, custom seat & tank, fast & pretty, excel cond. \$500. R. Piccione, Ext. 2342, 289-5704 after 5:30 p.m.

TIRES - 7.00x14, good cond, best offer. S. Osher, Ext. 2796 or leave message at Ext. 594.

66 DODGE DART - R/h, auto, ps, 18,000 mi, excel cond. \$1425. T. Morris, Ext. 7739.

67 FIREBIRD - Conv, 326 cu in, 4 spd trans. Bob, Ext. 7769, 734-5863.

63 MG MIDGET - New top, gen & reg, roll bar, seat belts, 65 eng. \$750. Bobby, Ext. 7356.

66 BUICK - Grand Sport, V8, auto trans, ps/pb, bckt seats, 4 new tires, snow tires, good cond. \$1800. John, Ext. 2504.

61 FALCON - New eng, new auto trans, new tires, good transportation. Firm \$400. MO7-7997.

44 JEEP - 4x4 w/hydraulic snow plow, immaculate body & excel mechanical cond, full cab. \$550. 751-8872 after 4 p.m.

65 PONTIAC - Catalina, 4 dr, auto trans, r/h, new tires, new battery, V8, excel mech cond, A-1 inside & out. Corcoran, AN5-2290, Ext. 2923.

TIRES - Fisk premium nylon tubeless, 8.25x14, 4 ply on Plymouth rim. C. Martins, Ext. 2852, 281-6809.

65 VW SEDAN - \$950. Rich, YA4-3298.

AUTO AIR CONDITIONER - Will fit any car, perfect cond. \$69.50. C. Martins, Ext. 2852, 281-6809.

65 VW CONV - Red, orig owner, clean in & out, excel cond, w/w tires, radio. Best reasonable offer. Paul, Ext. 2143, 281-3634.

63 FORD GALAXIE 500 - 390 cu in eng, 3 spd, h.d. clutch, very good cond. \$875. Doris, Ext. 2449, 286-3422 after 6 p.m.

60 CHEVROLET IMPALA - Red conv, 8 cyl, auto trans, ps, w/w & snow tires, new top & battery. Asking \$450. Janet, 475-4467.

63 CHEVROLET BISCAYNE - 2 dr, red int, std trans, 6 cyl, radio, w/w tires, excel. \$695. V. Curreri, Ext. 2254, 928-0086.

60 TRIUMPH TR-3 - Eng recently overhauled, TR-4 trans. D. Michael, Ext. 7615, 751-8776.

64 VW - Sunroof sedan, excel cond, orig owner. \$900. Kahane, Ext. 2810, SH4-6636.

68 HONDA SCRAMBLER 90 - Only 400 mi, candy apple red, excel cond. \$325. Jackie, Ext. 2296, 727-8196.

63 PONTIAC CATALINA CONV - Excel cond, good rubber, ps/pb, r/h, 1 owner. \$900. Ext. 422, 475-0549.

TRAILER HITCH FOR CHEVELLE - M. Greene, Ext. 7779.

59 OLDSMOBILE - V8, ps/pb, Garcia, Ext. 2713.

62 LARK CONV - Auto trans, 6 cyl, red w/blk vinyl interior, excel cond. Reasonable. L. Baker, Ext. 591, AT6-8816.

66 MOTORCYCLE - Twin Yamaha 100, low mileage, helmets & tools. B. Gneuchs, GR5-1054 after 5:30 p.m.

Boats & Marine Supplies

SCUBA REGULATOR - Divers mistral, like new. Asking \$20. F. Stapel, 732-7775.

CRUISER - 30' Wheeler, sleeps 4, fully equipped & in prime cond, ideal fam cruising boat. Asking \$4500. J. Hendrie, Ext. 7408, 286-8412.

21' CABIN CRUISER - 60 hp Gray inboard, fully equipped, must be seen, one man boat. Bob, Ext. 2528.

SKIMMER ROWBOAT - 12' w/6 hp Westbend outboard motor. \$175. N. Schinn, Ext. 2706.

15' OUTBOARD - Runabout, windshield, controls, 35 hp elec start Evinrude, battery, tanks, home made trailer. \$250. J. Mann, Ext. 2221.

OUTBOARD - 58 Scott McCullough 40 hp motor, elec start, controls & battery box. E. Harris, 475-8504.

ROWBOAT - 14' heavy duty, you pick up. \$45. Ext. 353, AT6-0436.

8' PRAM - Mahogany, fiberglass, oars, w/2 hp Sears outboard. \$80. Abbruscato, Ext. 481, 744-8388.

DEPTH INDICATOR - Sonar model D120 12V, records to 250', excel cond, 1 yr old. Mike, Ext. 2811 or 2387.

BOTTLES - Boating, camping this year, water storage heavy plastic bottles, 12 gal, \$10; 4 lb anchor used 1 season, \$3. Petruk, Ext. 2142.

WINDMILL - 15' sailboat, ready for the water, compl w/trailer. Bigeleisen, 472-0215 eves.

NAVY TOP - & side curtains to fit 24' boat. Mike, Ext. 2811 or 2387.

SEA GULL SAILBOAT - 18' dacron sails, ss rigging, fiberglassed deck, w/small sheltered cabin, good cond. \$600. Coppens, Ext. 2125, GR5-6881.

28' WHEELER CRUISER - Chrysler Crown, berths 5, hd, galley, gas stove, davits, dinghy, c.g. equip, parallel docking paid. Huszagh, HR2-1243.

SAILBOAT - Similar to Narrasketuck, compl w/new cotton sails, mast & boom compl. Best offer. Ext. 2749.

1960 LUHRS SEA SKIFF 23' - 170 hp Gray Marine V8 engine, all in excel cond, many extras. 941-4467 after 6 p.m.

1949 CHRIS CRAFT 31' EXPRESS - Ship to shore radio, 6 sleeper, twin 145 Chris Craft engines, fully equipped. \$4200. EM3-6895.

9' "HAGERTY" PRAM - Ready for water. \$75. R. Hodor, Ext. 7630.

Miscellaneous

BICYCLES - Boy's 26" Columbia; girl's 26" Hercules, perfect. J. Palmer, Ext. 2373, 751-1315.

SCREENS - Custom built wood, alum mesh, 10 approx 30"x51"; 3 approx 27"x51". \$4/ea or \$45 for all incl 5 storms, 31 1/2"x50 1/2". D. DiGuardo, Ext. 7440, AT6-8909.

SPREADER - Scotts 18", used only once. \$17. Ext. 7166.

BEDSPRING - 39"x72" new, box-type, \$3; car top carrier, 36"x36", \$3. Woodwell, Ext. 2853.

19" TV - GE, console or table model, very good picture. \$30. Gordon, Ext. 2913, GR5-1510.

ACCORDION - 120 bass Italian made, has had 10 lessons and a little practice. \$50. 286-3647 evenings.

WOODEN CLARINET - Needs work prior to use. \$35. 286-3647 evenings.

SNARE DRUM - Good cond. \$10. Ann, Ext. 562.

2 WINDOWS - Double hung wood, compl w/ screens, casings & trim, 2'2"x3'2", 1'6"x4'2". \$5/ea. T. Morris, Ext. 7739.

SKI PARKA - Woman's lg, yellow nylon, dacron fill, never worn, "Ski-tique" brand. List \$22.95, sell for \$15. T. Morris, Ext. 7739, 744-5096.

HARVEST TABLE - Small maple, 2 leafs w/2 chairs & bench, good cond. \$89. GR5-4199.

BICYCLE - Boy's 21", blue, old but works. \$2.50. B. Morris, 744-5096.

CHILDREN'S DESK - 19"x35", 4 drawers, in good cond. \$12. Gordon, Ext. 2913, GR5-1510.

REFRIGERATOR/FREEZER - 14 cu ft Amana, excel cond. \$80. O. Haller, WA9-4292.

SCOPE - Heathkit 5" single trace, ideal for hobby bench. Make offer. Lew, Ext. 7168.

BICYCLES - Girl's & boy's, 3-speed, very good cond. \$20/ea. Ext. Ext. 353, AT6-0436.

MOVIE CAMERA - 8 mm, Austrian, wide & tele lens, carrying case, \$75; metal sink & top, 42", \$8. 727-5535.

BATHTUB - 5' white enameled steel, lefthand drain. \$10. T. Morris, Ext. 7739, 744-5096.

TOY POODLES - AKC reg, 8 wks, 2 males. PA7-1066.

TOILET - White, compl. \$5. T. Morris, Ext. 7739, 744-5096.

LAWN SWEEPER - 26" Parker, excel cond. \$15. Abbruscato, Ext. 481, 744-8388.

COUCH - Solid maple, 68"x27", excel cond, recently reupholstered, zipper covered cushions; maple bunk beds, good cond. Mal, AT6-8353.

STD DOUBLE SINK - 30", w/faucets, good cond. \$10. PA7-1278 after 5 p.m.

FIREPLACE LOGS - 1/2 cord, \$25; full cord, \$40; all split 1/2 cord, \$30; all split full cord, \$50. 325-0567/727-0271.

TRAILER HITCH - 2" ball for 61 to 64 Ford or Mercury, used twice, \$12. V. Abbruscato, Ext. 481, 744-8388.

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

SILVER CERTIFICATE - Highest bid over \$1.53. M. Strongson, Ext. 2727.

NEW BABY SEAT FOR BIKE - \$6. Gordon, Ext. 2913. GR5-1510.

AUTO WASHER - Kenmore, 10 lb capacity, good cond. \$75. Tom, Ext. 2971.

BICYCLES - Girl's 26" Hercules; boy's 26" Columbia, perfect. J. Palmer, Ext. 2373, 751-1315.

MEN'S ROLLER SKATES - Indoor rink Chicago brand, size 8, excel cond. \$6. G. DiGuardo, Ext. 2258.

REFRIGERATOR - 1950 International Harvester, 7.6 cu ft, in working order. \$35. 878-1584.

4 SPD CONSOLE PHONOGRAPH - Blond finish. \$25. B. Jellet, 744-2097.

SCREENS - Wood frame, full window, 5 ea 28"x47 1/2" & 31"x55". \$1 each. B. Keck, Ext. 7240.

18" PORTABLE BLACK & WHITE TV - Excel cond, adaptable to UHF, 1 1/2 yrs old, stand incl. \$95. Carol, Ext. 2219.

COLLIE PUPPY - AKC, sable & white, female. \$30. Nancy, Ext. 2114, 878-2659 after 6:30 p.m.

AIR MATTRESS - Like new, w/built-in pump, \$2; iron table legs, set of 4, \$3. Sanders, Ext. 7465.

DRAFTSMEN - Post drawing instruments, lg set, like new. \$10. Sanders, Ext. 7465.

BABY EQUIP - Car bed, \$3; bouncing chair, \$2; sterilizer w/bottles, \$3. Sanders, Ext. 7465.

DIVING SET - Men's, lg, reg, 3/8" thick, wrist/ankle zippers, pants, jacket, hood, boots, mask, snorkel fins (med). All for \$50. E. Hodges, Ext. 381.

SODA KING - Soda maker plus cartridges. Orig \$18, hardly used, \$10. Marcia, Ext. 2743.

MOWER - Sunbeam 18" rotary push, good cond. \$25. E. Willen, Ext. 7308.

AUTO RIFLE - Brand new, never fired, .22 cal Sears. \$30. L. Baker, Ext. 591.

POODLES - Apricot, minis & toy, Meisen-Great coats breeding, Champion bloodlines, health guaranteed, will hold till Easter. 924-8681.

RUG - 13'x15', tweed, white, gold & brown, also have padding, 1 yr ol, orig cost \$138. Sale price \$75. Bob, Ext. 2258.

THINK AHEAD - Hunting season only 6 mo off, AKC Beagle pups. Mac. Ext. 466, 281-9559.

COAT - Little boy's camel hair spring coat /matching cap, size 5, \$6; 100% wool Eton suit, size 6, \$4; excel cond. AT6-8814.

TAPPAN RANGE - 1 yr old, 20", bottled gas. Mrs. Kalbleisch, 744-5741.

STEREO - Finest professional component system, AR: Janszen, Dynakit, must be heard. Sacrifice \$575. Ext. 2888.

8 mm MAUSER - Sporterized, Williams receiver, butt pad, etc. shoots M.O.A., NRA excel. \$75. Ext. 2888.

FIREPLACE LOGS - Seasoned oak, while supply lasts, 18" long. 20/\$1 & 12/1. YA4-3236.

LAWNMOWER - Silent Yardman, push type, 18", 1 yr old, orig cost \$35. Asking \$15. Brownie, Ext. 7382.

CUT GLASS - Pressed glass, tables & antique Victorian couch. HR2-0509 after 5 p.m.

MATERIALS - Suit & dress, cottons & wools. HR2-0509 after 5:30 p.m.

BABY JUMPER CHAIR - & stroller. \$5/ea, both for \$9. Ext. 2934.

RIDING LAWMOWER - 26" Worcester, 4 hp, 4 cycle, needs coil spring for starter. \$65. Mike, Ext. 2314.

22 RIFLE - Remington Model #511, \$16; 3000 rounds 22 cal L.R. ammunition, \$40; target stop, \$15. \$65 takes all. John, Ext. 7461.

ELEC LAWN MOWER - Used twice, w/100' cord, \$55; riding mower, 4 hp Sears, very good cond, \$80. Jerry, Ext. 2532.

GAS CENTRAL HEATING UNIT - Gas hot water tank & 1/2 hp water pump, all in working cond. All for \$35. Jerry, Ext. 2532.

12 GA ROLLING BLOCK - Lever action, \$45; 12 ga rabbit ears dbl, \$35; 32 cal rolling block rifle, \$25. John, 878-1903 after 6 p.m.

NORTHLAND SKIS - 6'3", used 1 season. Orig \$25, asking \$12.50. R. Schermer, Ext. 541.

BELL MAGNUM HELMET - W/windshield, like new. \$45. F. Gonzalez, Ext. 7220.

SPLIT FIREPLACE LOGS - 2 chords. \$20/chord, you pick up; \$30 delivered. Tom, JU4-5121.

600 PRACTICE GOLF BALLS - \$12; good golf balls, \$2.50/doz. Tom, JU4-5121.

SNARE & DRUM - Cymbal stands incl, red, good cond. \$45. 298-8087 after 6 p.m.

Houses

BROOKHAVEN VILLAGE - 3 bedrms, liv rm, din rm, fam rm, w/fireplace, garage, 1 1/2 baths, landscaped 1/2 acre. 286-1218.

SHIRLEY - 3 bedrm ranch, full basement w/fireplace, garage att, corner full landscaped, stockade fence, 10 min from lab & close to shopping. 281-9435.

SAYVILLE - 7 rm, 3 bedrm ranch, rec rm w/fireplace, s/s, full basement, att garage, 1/2 acre, treed corner lot. \$18,500. LT9-6752.

PT JEFF STATION - 3 bedrm ranch, full basement, garage, s/s, 103x112' landscaped lot w/patio & 22' pool. \$16,000. L. Jacobson, Ext. 2314, HR3-1980.

BROOKHAVEN VILLAGE - Spacious waterfront col, 8 rms, 1 1/2 baths, priv dock, bulkheaded, lg dble garage. \$30,000. AT6-0322.

SHOREHAM - 1 yr old col, 3 bedrm, din rm, rec rm, 1 1/2 bath, full basement, 1/2 acre wooded, garage, beach rights. \$22,900. 744-8388.

PATCHOGUE - 3 bedrm, 2 story colonial, 2 car garage, 1 1/2 baths, patio, extras, grounds, occupancy Aug 31, close to store & school. \$21,500. 475-6881.

CAPE COD - 2 bedrm, 1 bath, 600 sq ft, expansion attic, situated on quiet, secluded 1/2 acre lot. W. Wilson, 727-1864.

WADING RIVER - 2 bedrm ranch, w/w carpet, baseboard hot water heat, dble garage, full basement, 130'x150', dogwoods surrounding area. 929-4714.

For Rent

5 RM APT - 1st floor, in Yaphank. \$125/mo incl heat, security required. 924-6894.

MASTIC BEACH - 3 bedrm modern ranch w/w carpet, 2 car garage, fenced backyard. R. Lehmann, Ext. 2411, 724-4298 after 5 p.m.

FURN RM - Clean well kept house, kitchen priv, 10 min to lab. \$65/mo. Ken, Ext. 2442, Al, Ext. 2726.

Wanted

TOYCHEST - Wooden & bicycle, 10" or 12" size, in good cond. J. Smith, Ext. 2797.

HOME - For a kitten. Bob, Ext. 309.

OLD LIGHT SAIL - Suitable for cutting to 50 sq ft, cond not important. R. Thomas, Ext. 612.

GREY METAL BOOKCASE - 6' high, 3' wide, 18" deep. J. Mobile, Ext. 595.

ROCKING CHAIR - Used Boston style. \$10-\$20. Naomi, Ext. 2919.

TV - In reasonable working order & in lowest price range. P. Webster, Ext. 7317.

SURVEYING TOOLS - Old, used, broken, what have you. Ext. 597.

GOOD BASS PLAYER - 15-18, experienced, w/equip for serious, hard working, rock & roll group. Ernie, AT6-0436.

BEAGLE PUP - AKC reg, reasonable. Ronnie, Ext. 7356.

SAILS - Any shape any size. Wally, Ext. 7168.

SPRING CLEANING - For your collie, bathing & grooming for home and for show. Nancy, 878-2659 after 6:30 p.m.

STUDENTS - To learn to dance. H. Fales, 334-1162 after 6 p.m.

RIGHT HAND SIDE OF \$1000 TIGERAMA - Will share with owner 50-50. Schmitt, Ext. 2478.

SET OF BAR-BELLS - Used & priced right. Richie, 234-7991.

Carpools

CARPOOL NEEDED - Rider/driver or paying rider, Rider Ave., Patchogue. B. MacLeod, Ext. 7382.

LOOKING - For a carpool, sharing driving & riding from vicinity of Floral Park, Queens. Ext. 2843.

2 ADDITIONAL DRIVERS - To compl carpool from Massapequa area & points west. D. Blackmur, Ext. 2554.

RIDER/DRIVER - Would like to join carpool from S. Huntington. Al, Ext. 477.

Found

FOUND - Book "Mathematical Methods of Statistics" by Cramer. Ext. 7667.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following Thursday.

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

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

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

- For Sale: Houses
 For Rent
 Wanted

- Carpools
 Check the heading applying to your ad.
 Print or type your ad in 20 words or less.

(Name & Phone No. To Call)

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

Employee's Signature _____ Life No _____ Ext. _____

Send to: BULLETIN BOARD, 40 Brookhaven Avenue

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