

Radicals Not All In Political Scene

According to Dr. Donald C. Borg, 91st BNL Lecturer, "Radicals exist not only on the political scene but also in chemistry, including the chemistry of life."

Dr. Borg's lecture, to be given on Wednesday, March 18 in Berkner Hall at 8 p.m. is titled, "Do Radicals Control Our Lives? Free Radicals in Biology and Medicine." Dr. Borg will be introduced by Dr. George Cotzias, also of the Medical Department.

Free radicals of the nonpolitical type are usually very reactive, because one of their valence electrons is "free" in the sense that it does not partake in a chemical bond. Hence - not unlike many of the more political "free radicals" - they tend to be short-lived. Their transient nature makes free radicals difficult to study, yet it is now clear that they are important intermediates in many of the chemical reactions of life, as well as in the reactions whereby ionizing irradiation affects living things.



A number of pertinent examples will be discussed in which free radicals are related to fundamental processes of life. There is a free radical theory of aging, whose proponents contend that appropriate understanding and manipulation of the free radical steps could lead to prolonged vitality and greater longevity. There are indications that free radicals are involved in the initiation of some cancers, especially those provoked by chemicals, smoke, or radiation. It is definitely known that the basic energy-releasing processes that provide the fuel for all of life, the oxidation or "burning" of foodstuffs within cells, involve free radical mechanisms; and the critical coupling of these reactions to the production of "stored energy" in the form of "high-energy" phosphates also may depend on free radicals. Within the plant world the first chemical steps in harnessing solar energy through photosynthesis are of a free radical nature.

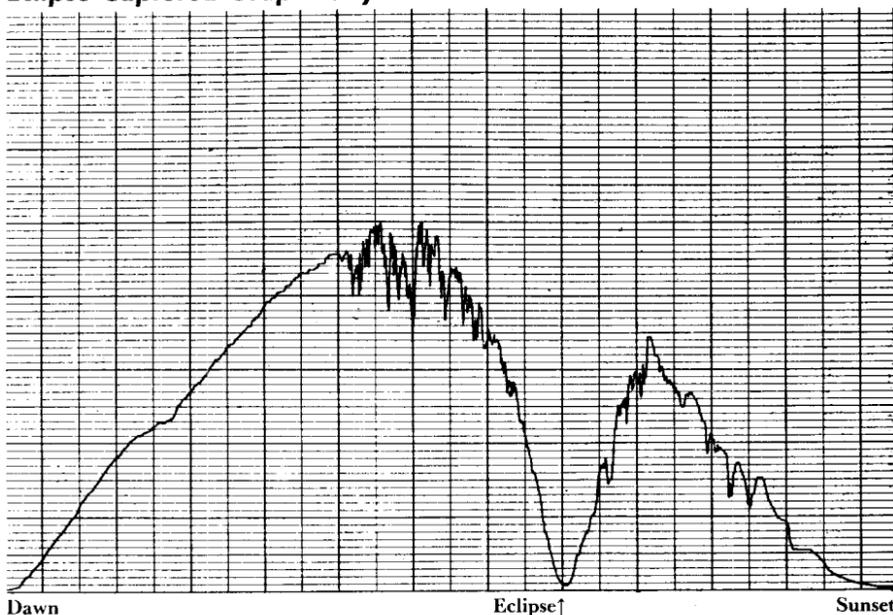
From these and other examples one may conclude that if radicals do not actually control our lives, at least they exert a great influence.

Dr. Donald C. Borg was born in New York City. He received his S.B. in Physics from Harvard University in 1946 and his M.D. from Harvard Medical School in 1950. He interned at Harvard Medical Service, Boston City Hospital. In 1951-52 he was an Assistant Resident at that hospital and also held an appointment as a Teaching Fellow in Medicine at Harvard. From 1952 to 1954 he was on active duty with the U.S. Navy, serving as Analysis Officer of the Nuclear Weapons Effects Division, ArmeC. Forces Special Weapons Project (now Defense Atomic Support Agency).

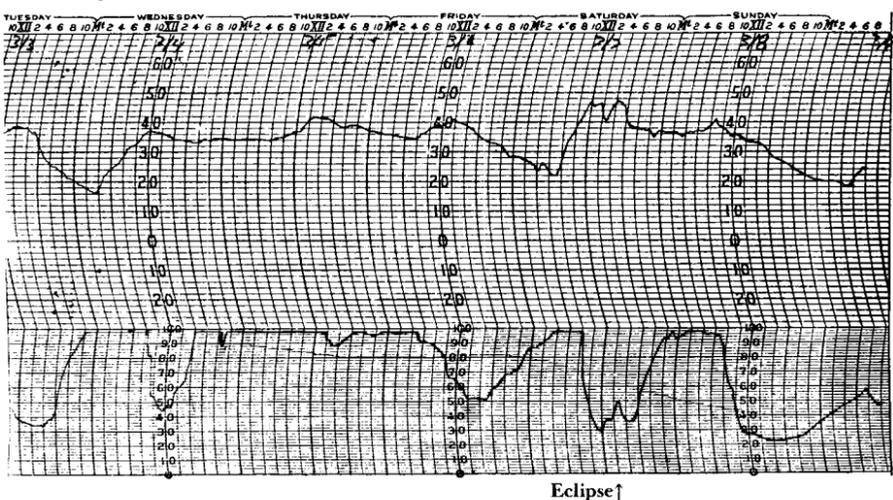
In 1955 Dr. Borg came to Brookhaven National Laboratory as a Research Associate in the Medical Research Center. In 1957 he was appointed Associate Scientist, and in 1962, Scientist, in the Center.

Dr. Borg resides in Bellport with his wife, the former Mary Alice Aub, and their three children.

Eclipse Captured Graphically



Incoming solar radiation measured by the pyrheliometer in the Meteorology Group of Brookhaven. At left is the period at dawn when no solar radiation is measured. As the day progresses, solar radiation increases to a high point before noon. Cloud cover before the start of the eclipse is shown as jagged lines. As the moon passes in front of the sun, the amount of solar radiation drops till it reaches a low point at 97% of totality. As the moon moves away from the sun, radiation increases again to normal and then falls off as sunset approaches at the right of the tracing.



This Thermogram was made to record temperature and humidity during the period from Tuesday through Sunday. On the upper graph on Saturday just after 2 p.m. the temperature has taken a drop for the period of the eclipse. On the lower graph the humidity has increased in almost the same configuration. Another thermogram made by Dr. R.C. Anderson shows almost the identical evidence of the effect of the eclipse on the air temperature.

Talent Search Winner



Kirk Shinsky (left) is a high school senior from Allentown, Pennsylvania. He is being interviewed by Dr. George Collins of Brookhaven National Laboratory (center) and Dr. Peter Trower of the Virginia Polytechnic Institute. Kirk was awarded first place in a nationwide talent search conducted by the Westinghouse Corporation. The award was made for carrying out a colliding beams proton-proton scattering experiment in his cellar with homemade apparatus. Kirk will join the BNL-VPI Group this summer in their proton-proton experiment at the AGS. —Lauber

Hendrie Elected '70 Safeguards Head

The Atomic Energy Commission's Advisory Committee on Reactor Safeguards has elected Dr. Joseph M. Hendrie of Brookhaven National Laboratory, as its Chairman for calendar year 1970. Dr. Spencer H. Bush of the Battelle Memorial Institute, Richland, Washington, was elected Vice-Chairman of the Committee for the same period.

Dr. Hendrie began his professional career at the Radiation Laboratory at Columbia University in 1950. He accepted a position as Assistant Physicist at Brookhaven National Laboratory in 1955, where he advanced to Associate Physicist in 1957 and Physicist in 1960. Dr. Hendrie was assigned as Project Engineer for the BNL High Flux Beam Reactor in 1958 and held that position until the reactor commenced operation in 1965. He now is engaged in the development of advanced research reactors, and is Associate Head of the Engineering Division of BNL's Department of Applied Science. Dr. Hendrie is a consultant to the Columbia University Reactor Safety Committee and is a member of the Editorial Advisory Board of "Nuclear Applications."



Dr. Hendrie received a Bachelor of Science degree from Case Institute of Technology in 1950 and was awarded a Ph.D. in Physics from Columbia University in 1957. He is a Fellow of the American Nuclear Society and a member of the American Physical Society, the American Society of Mechanical Engineers and the Sigma Xi and Tau Beta Pi honorary societies. Dr. Hendrie is a licensed professional engineer in the State of New York.

The particular areas to which Dr. Hendrie has devoted most of his professional career include the physics and the engineering design of nuclear reactors and atomic and molecular beam research.

He resides in Bellport, with his wife, Elaine, and their two children, Susan and Barbara.

Dr. Bush is a metallurgical engineer with many years experience in the reactor field and has served since 1965 as a consultant to the Director of the Pacific Northwest Laboratory, Richland, Washington, operated for the AEC by Battelle Memorial Institute. Earlier he completed several assignments as a metallurgist and metallurgical engineer for the General Electric Company at the Hanford Works at Richland, becoming a consulting metallurgist within the Hanford organization in 1963.

Dr. Bush resides in Richland, Washington, with his wife, the former Roberta Lee Warren, and two children, David and Carl.

In addition to Dr. Hendrie and Dr. Bush there are twelve other members of the ACRS.

Can We Afford Affirmative Action?

The next Affirmative Action Advisory Committee open lunchtime meeting will be held at noon on Friday, March 13, in the Cafeteria. Everyone is welcome to join the AAAC at that time and raise questions and make suggestions.

GAO Auditors Tour Lab



General Accounting Office auditors who have been working at Brookhaven for the past few months were taken on a tour of Lab facilities by Frank Federman, AUI Auditor. Shown here is the group that visited the Radiation Laboratory where Lawrence Kukacka, DAS, (right) explained the processing of concrete polymer. The auditors are: Edward Kennedy (foreground) and Robert Barberi. Frank Federman is standing next to Kukacka. —Humphrey

300 See Horizon

Over 300 persons attended the two showings of the BBC color film, *Horizon*, which was made at CERN. The film was shown in Berkner Hall last Thursday and Friday at 1 p.m.

Rather than a tour of the technical areas and an exposition of the hardware of high energy physics, *Horizon*, gave an insight into the people that worked to make CERN an important center for nuclear research.

Dr. Peter Schübelin, a research associate with the Physics Department Counter

Group under Dr. George Collins, was responsible for getting this film for the Brookhaven audience.

Friday The Thirteenth

Black cats, spilled salt, ladders, and other signs should all be avoided tomorrow, Friday, the thirteenth of March. We had a "Bad Luck" Friday last month, but if this one is survived without catastrophe, we are safe again until November when the next Friday the Thirteenth occurs. Sufferers of triskaidekaphobia should be especially careful tomorrow.

How it is figured:

<i>Realized Gain:</i>	
You sold your home for	\$26,000
Commissions and other selling expenses were	2,000
The amount you realized was	24,000
The tax basis of the home you sold was	20,000
The realized gain is	<u>\$ 4,000</u>
<i>Recognized Gain:</i>	
The amount you realized was	\$24,000
Less your fix-up expenses	500
Adjusted sales price	23,500
Cost of new residence	22,000
Your resulting recognized gain	<u>\$ 1,500</u>

The tax basis of your new residence would be cost (\$22,000) reduced by the difference (\$2,500) between the realized gain (\$4,000) and the recognized gain (\$1,500). Whether or not you have a recognized gain, you must report the transaction on Schedule D form 1040. You must also file form 2119 "Statement Concerning Sale or Exchange of Personal Residence" in support of your entry on Schedule D. *Key to Deferral* - You may defer the capital gain only if you purchase a new residence within one year before or one year after the sale of your old residence. If you are constructing a new home, the replacement period (including occupancy) is extended to eighteen months. However, construction must begin within the first twelve months. *Miscellaneous* - Ordinarily, the gain on the sale of a residence is realized in the year the sale takes place.

Persons over 65 years of age are eligible for special tax provisions when selling a residence.

Dollars and Sense

Ken Mohring
Sale of a Residence

That treasured home you sold this past year may have left you with a tax liability, for the gain on the sale of a residence is taxable income.

However, this tax must be deferred if you meet certain criteria. If the sale results in a loss, the amount of the loss is generally not deductible. To determine if you have a gain or a loss, you must first find the "adjusted basis" (tax cost) and the "adjusted selling price" of your home.

Adjusted (Tax) Basis - Original cost plus capital improvements (room additions, additional electric wiring, additional heating units, etc.)

Adjusted Sale Price - Selling price less fix-up expenses (cleaning, painting, etc.). Special rules apply to fix-up expenses. Among these are: expenses must be paid within 30 days after the residence is sold, work must be performed within 90 days prior to the signing of a contract of sale, work must not be of a capital nature and cannot be regular maintenance.

A second ingredient of adjusted sales price is selling expense, which includes broker's commission, legal fees, state transfer taxes, advertising, and "points."

Realized Gain vs. Recognized Gain - You will pay capital gains tax only if you have recognized gain. The realized gain will only be used to adjust the tax basis of your replacement residence.

Here and There

Claire Lamberti

F.X. Rizzo and L. Galanter (both DAS) attended the ASTM Meeting, Subcommittee on Radiation Dosimetry and Standards in Cincinnati, Ohio on March 4.

J.H. Cusack (DAS) attended the American National Standards Institute Committee N4.3 Meeting in New York City on February 26.

Catharine L. Wingate (Health Physics) attended meetings of the Radiation Research Society in Houston, Texas, March 2-4.

Russell N. Dietz (DAS) presented a paper on "Low Temperature γ -Irradiation for Ozone Synthesis and Nitrous Oxide Decomposition" at the 159th National ACS Meeting in Houston, Texas, February 22-27.

Nicholas Delihias (Medical) gave a lecture entitled "RNA and Ribosomal Structures" at McGill University, Montreal, Canada on March 2.

Thomas Koetzle is spending the term of an AEC postdoctoral fellowship in the Chemistry Department to carry out neutron diffraction studies on proteins. Dr. Koetzle received his doctorate from Harvard University.

Bruce Droupsky is spending six months in the Chemistry Department as a Research Collaborator. Dr. Droupsky is a nuclear chemist at Los Alamos Scientific Laboratory.

SLAC News Starts With Big Story

Volume One, Number One of the *SLAC News* was published on February 26 with a lead story that will be hard to match in importance in future issues.

The arrival of Georges Pompidou, President of the French Republic, was the lead story, with a banner headline over the entire four columns of page 1.

As described by the editor of *SLAC News*, "This first edition . . . has been put together under rather harried circumstances because of the Public Information Office's involvement with the President Pompidou visit."

In addition to stories about the French President's visit, reports on current research projects were carried, as well as news about other activities at the Stanford Linear Accelerator Center.

Previous to publishing the *SLAC News*, Jack Saunders, Public Information Officer visited Brookhaven to collect information on the publication of the *Brookhaven Bulletin*.

Medical Seminar On Cell Communication

Dr. Howard Rasmussen, Professor and Chairman, Department of Biochemistry, University of Pennsylvania, Philadelphia, will present a Seminar on Tuesday, March 24, at 3:00 p.m. in the Medical Department Seminar Room. His topic will be "Cell Communication: Calcium and Cyclic AMP."

In Dr. Howard Rasmussen, the Medical Department welcomes back a research collaborator of long and distinguished service. He had become widely known for his isolation and characterization of the parathyroid hormone, work done while he was a graduate student. His extensive contribution on the mechanisms by which hormones order various target cells to perform their functions is acknowledged by his fellow scientists. He is now interested in how the cells talk to each other. The particular cellular language that he will discuss at his Seminar involves a metal (calcium) and a nucleotide (cyclic TMP).

Arrivals & Departures

<i>Arrivals</i>	
Janice R. Jablonski	Medical
<i>Departures</i>	
Susan E. Barry	D.A.S.
Ivan Draganic	Chemistry
Salvatore J. Miceli	Medical
Frank G. Sendlewski	P.E.P.
Gaetano A. Tanza	P.E.P.
James K. Thurber	Applied Math.
Stanley Weber	D.A.S.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

CARL R. THIEN, Editor
CLAIRE LAMBERTI, Editorial Assistant

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

NORBERT J. DERNBACH
Public Relations Officer

Tune In!

#151 - I would like to know the official answer to Frank Salzano's letter to the editor of *Brookhaven Bulletin* dated 19 February 1970.

Friends of mine have indicated that they would also be in favor of a "No Raise" policy for the coming fiscal year.

Trying to obtain a new position in industry these days is near impossible with all companies tightening their belts and laying people off.

I can back this up with answers to my own resumes.

The proposal to avoid a layoff by foregoing salary increases has been considered, along with other alternatives, by the Director of BNL and the President of AUI.

The problem confronting us at Brookhaven is that we must absorb the impact of a reduced budget and continue to function in a way which will permit us to effectively meet our primary commitment to research. One partial solution to this problem is to forego salary increases. While this would lighten the job reduction impact, it would also have a serious and lasting effect on many Laboratory programs. Substandard non-competitive wage levels increase the number of voluntary terminations and many virtually irreplaceable employees in critical positions might be lost. Because of the nature of the Laboratory's funding, the substandard wages would remain virtually immune to correction in future years.

Another way of meeting the problem of reduced funding is to continue to do what the Laboratory has done over the last two or more years. The method involves filling only the most essential openings created by terminating employees. The effect has been to lighten this current reduction in force from 400 or more employees to approximately 250.

As distasteful and unfortunate as a reduction in force is to all of us, it is the only way in which the Laboratory can continue to meet its commitments.

Joseph Washburne,
Personnel Manager

#156 - What has happened to the "Arrivals & Departures" column? It is closely watched by many people for various reasons, and it is missed.

#157 - The *Brookhaven Bulletin* of February 26 contained no "Arrivals & Departures" column. Were there no entries for this week or is this column being dropped. Since many of my friends and acquaintances may be leaving the Laboratory due to the recent budget cuts, I would like to see a complete up-to-date list published in the *Bulletin* every week.

There were no arrivals or departures listed in the February 19 issue of the *Bulletin* because none occurred. In the issue of the 26th of February, there were 2 names for the departure list, but because of the holiday on Monday, were received too late for printing in the issue of the 26th. Both of these names were included in the list that was published last week. The *Bulletin* will continue to publish arrivals and departures as they are received from Personnel.

Carl Thien, Editor

Cafeteria Menu

Week Ending March 19, 1970

Friday, March 13	
Clam & Celery Bisque	
Fried Stuffed Flounder	.65
Braised Meat Balls/Vegetable Gravy	.65
Broiled Halibut/Butter Sauce	.75
Monday, March 16	
Vegetable Soup	
Baked Ham/Pineapple Sauce	.65
Spaghetti w/Italian Meat Sauce	.75
Beef Liver & Bacon	.65
Tuesday, March 17	
Puree of Pea Soup	
Roast Round of Beef	.65
Chicken Pattie/Chicken Cream Sauce	.65
Frankfurters/Mashed Potatoes/Red Cabbage	.70
Wednesday, March 18	
Chicken Gumbo Creole Soup	
Broiled Link Sausage/Apple Sauce	.65
Tender Brisket of Corned Beef	.65
Fried Filet Sole/Tartar Sauce	.75
Thursday, March 19	
Cream of Corn Soup	
Veal Patti/Tomato Sauce	.70
Roast Turkey/Giblet Gravy/Cranberry Sauce	.70
Chili Con Carne on Rice	.65

Dress Rehearsal For Williams Play



Isabel (played by Carol Celentano) and her husband George (played by Richard Silbergliitt) end up on Christmas Day the best of friends. —Rosen



Director Lu Zavesky instructs the cast during a break in the dress rehearsal.



Mr. McGillicuddy (Gert Friedlander) and Ralph argue about a family affair.



All's well that ends well as Dorthea (Julie Peierls) and Ralph (Tony Nardi) decide that their marriage is finally worth while.

Events At Stony Brook

Lectures, concerts, movies and a play will be among events at the State University of New York at Stony Brook open to the public between Friday, March 13 and Sunday, March 22. Unless otherwise indicated, admission to events listed is without charge.

Saturday, March 14

The United Jewish Appeal will show two movies, "Let My People Go" and "Never Again to be Denied," at 8:30 p.m. in Room 214 of the Stony Brook Union.

Two student-made movies, "Bronde" by Bob Goldstein and "The Snob" by Herb Ziegler, will be shown at 8 p.m. in the Irving College game room as part of the college's Folk Fest.

Sunday, March 15

Two separate exhibits of photographs and drawings will be on display in the Gray College Lounge. The works of artist James Stuart and photographers Rolf Anker and Emanuel Vasquez will go on exhibit at 1 p.m. followed by a showing of photographs by Life Magazine photographer W. Eugene Smith, at 7 p.m.

The Hayden String Quartet will perform in the Cardozo College Lounge at 7:30 p.m. "Key Largo," starring Humphrey Bogart, will be shown at 8:30 p.m. in the Dreiser College Lounge.

Monday, March 16

Scottish dancing will be held at 8 p.m. in Room 239 of the Stony Brook Union.

Tuesday, March 17

Dr. Marvin Kalkstein, from the Sociology Department at Stony Brook will lecture on "Nuclear Weapons and National Security," at 7 p.m. in Room 100 of the Lecture Hall Center.

Wednesday, March 18

Guitarist and luteist Julian Breaun will perform in a concert at 8:30 p.m. in Room 100 of the Lecture Hall Center. Tickets for the performance will be \$2.50 for the public and \$1.50 for faculty and staff with students admitted free.

Dr. Gabriel Lanig, Instructor of Clinical Psychiatry at Columbia University will lecture on "Why Do Parents Abuse Their Children?" at 8 p.m. in Dreiser College Lounge.

"People's Park Home Movies" will be shown at 8 p.m. in Kelly A College Lounge.

Brigitte Bardot Movie Shown By French Club

Everyone Welcome

The next meeting of the French Club will feature the movie "Le Mépris" ("Contempt"), starring Brigitte Bardot. This film, made in 1964, is considered an outstanding work of the director Jean-Luc Godard.

English subtitles, in color.
Day: Monday, March 16
Time: 8:30 p.m.
Place: Berkner Hall
Admission: \$1.50

Period Of Adjustment

by Toni Nappi

Tomorrow is the opening night of the Theatre Group's "Period of Adjustment" by Tennessee Williams. This production is the second time the group has attempted a Williams play. Those who attended might recall "Summer and Smoke."

One of the reasons the Theatre Group has waited so long, has been the tremendous criticism hurled at that earlier production. Why, it was asked, does the Theatre Group seem to revel in sickness and perversity? Why must a Williams play be produced at all? After all, he's the apostle of everyone who's mentally sick.

A research committee was immediately formed. Their task was to survey BNL for signs of mental illness. Last December, their results were presented to the executive committee. As it turned out, over 90% of BNL employees were suffering from the same mental disorder, called "illusions of connubial bliss," or in less scientific terms, they thought they were happily married. Now everyone, especially bachelors knows that happiness and marriage can't be mixed.

This being the case, the Williams' catalog was searched and a play was found that deals with this horrible perversity. The play was "Period of Adjustment." It simply tells the story of four people and how their normal lives gradually deteriorate to that state of illusion described as connubial bliss. At the end of the play, they lovingly hold hands and are quickly whisked away to that little white institution, Home Sweet Home.

Come to see "Period of Adjustment." It may not be too late for you to learn to recognize the onset of the disease . . . that friendly kiss, that gift of candy, that seductive smile.

Lessons in the art of avoiding marital bliss will be given nightly, March 13, 14, 20, 21 at the BNL Theatre. Come prepared to laugh.

The Cast

Ralph Bates Anthony J. Nardi
Isabel Haverstick Carol Celentano
George Haverstick Richard Silbergliitt
Susie Ann Miller
Mrs. McGillicuddy Jackee Kelly
Mr. McGillicuddy Gerhart Friedlander
Police Officer Daniel Glass, Jr.
Dorothea Bates Julie Peierls
Dog Phoebe Goodheart

Tickets for the opening night of Period of Adjustment are on sale at the Box Office at the Theatre as well as at the Cafeteria and at the Recreation Office. Unreserved but guaranteed seats cost \$1.50 for employees and \$1.75 for guests. Children under 18 only \$.75 for any of the four performances on March 13, 14, 20, and 21.

Bowling News

Irma Carl

Purple League

The second half is turning into a two-team race with the Designers still leading the Electrons. J. Cuccia was the big man of the evening with a 216/552. Others who tried to make it just as big were S. McCormack 203/531, W. Hayes 190/526, E. Sperry 187/514, A. Pinelli 178/510, J. Nocar 185/508, Tom Lee 173/501, B. Lacey 211/495, and L. Baker 202/477.

Rose League

Splits all over the place, but the gals were making them - Roberta Rubesh made the 5-10 split and so did Helen Keeley; Jennifer Jean Jenny the 5-7; Mary Kish the 5-7-10; and Chris Bortscheller the 5-8-10. Sure Shots going strong and still in first place.

Pink League

Team standings remain the same for the third week, and with position night not far off some of the gals are really bowling with a fixed eye on the pocket. Flo Weiss (177/504) and Mona Vitale (181/503) were setting the pace, closely followed by Rosalie Piccione 170/490, Betty Walczak 186/470, Carol Beckner 183 and Rene Rosati 173.

Radio Club Meeting

There will be a meeting of the BNL Amateur Radio Club on March 13th at 2000 hours in the Recreation Building. A short talk on Australis-Oscar 5 will be given by W.R. Tooker, WA2KSB. This satellite is presently orbiting the earth with beacons transmitting on the 10 and 2 meter amateur bands.



Violist Raphael Hillyer Is No Stranger To BNL

Raphael Hillyer, who is replacing Marvin Hayes as the next artist of the BERA Concert Series, has appeared at Brookhaven several times before as a member of the Juilliard String Quartet. His most recent appearance was for the opening performance for 1968-69 season, which was also the first time that Berkner Hall was used by the Concert Series.

At next Thursday's concert, Hillyer will be accompanied at the piano by Susan Halligan. The program will open with a sonata for viola and piano by Hindemith in three movements.

The second offering will be a composition having the movement of an old Spanish dance - Chaconne for Viola Alone, by J.S. Bach. After intermission the program will continue with a Brahms Sonata for viola and piano in three movements which will conclude the evening's concert.

Tickets for the concert on March 19 may be purchased at either the Recreation Office or at the door. Single tickets are \$3.00 for adults and \$1.50 for children. Non-employee guests are \$3.50 each. The concert will start promptly at 8:30 p.m.

Softball

Tom Lee

Even though the basketball season hasn't ended and bowling is still going strong, here we are, prompted by the hint of spring, getting softball out of mothballs.

A recent meeting of the Softball Executive Committee found Frank Flannery replacing retiring Mike Zguris as President. That's a tough act to follow Frank, so "good luck" in your new position.

Now down to business - last year's captains received entry forms in the mail last week. Any new teams or individuals who may be interested, may pick up paperwork at the Recreation Office. A \$40 entrance fee has been assessed for each team to cover ASA membership, Softball Day, specials and any odd expenses which may occur.

BERA, as in the past, will supply umpires' fees, balls, bases and associated field equipment, and trophies. The size of the program in the past has created a problem in keeping equipment at the fields. Therefore, the Softball Committee has decided that each team will be responsible for having its own bats, scorebook and catcher's mask. These will be available for purchase at the Recreation Office in the near future.

So start jogging and get those old joints loosened - another season will be underway shortly.

Mixed Volleyball

The second half standing as of March 2nd is:

	Wins	Losses
Nets	9	3
Jets	8	4
Mets	4	8
Bouncers	3	9

The end of the season is just around the corner; last game March 23rd so it's now or never for a comeback!

-Lorraine Osterer

Classified Advertisements

Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees.

SUPERVISOR-MACHINE SHOP - Physics Department, Virginia Polytechnic Institute, Blacksburg, Virginia.

SUPERVISOR-ELECTRONICS SHOP - Physics Department, Virginia Polytechnic Institute, Blacksburg, Virginia.

ADMINISTRATIVE ASSISTANT - Chemistry Department, University of Rochester, Rochester, New York.

TOOL FABRICATION - (die makers, jib builders and borers), Grumman Aerospace, Bethpage, New York.

CLERK TYPIST/RECEPTIONIST - Brookhaven Memorial Hospital, Patuxent, New York.

MAINTENANCE MECHANIC - Cold Spring Harbor Laboratory of Quantitative Biology, Cold Spring Harbor, New York.

TYPIST (EVENINGS) - Physical Review, Brookhaven National Laboratory.

CHEMICAL ENGINEER OR MECHANICAL ENGINEER - Argonne National Laboratory, Idaho Falls, Idaho.

METAL WORKERS - (Precision Sheetmetal Man I, Sheetmetal Mechanic I, Sheetmetal Mechanic II) - Maxson Electronics Corp., Great River, New York.

BACTERIOLOGIST - Suffolk County Department of Health, Riverhead, New York.

PUBLIC HEALTH ENGINEERS (Civil or Chem. Eng. degree) Suffolk County Department of Health, Riverhead, New York.

SECRETARY - H.S. Roberts, Inc., Westhampton Beach, New York.

ELECTRONIC TECHNICIAN - Periphonics Corp., Rocky Point, New York.

CHEMIST - Lauman Laboratories, Inc., Bethpage, New York.

CLERK/TYPYST - Thomson Industries, Inc., Port Washington, New York.

MACHINISTS (punch press leadman, injection molding man and punch press operators) - Thomson Industries, Inc., Fort Washington, New York.

TECHNICIAN/PROGRAMMER - General Telephone & Electronics Laboratories, Inc. Bayside, New York.

GROUP MANAGER, ANALYTIC STUDIES - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

SECRETARIES/TYPISTS - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

LOGIC DESIGN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

CHEMICAL TECHNICIAN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

BIOLOGICAL TECHNICIAN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

ELECTRICAL ESTIMATOR - Charles A. Mulligan, Inc., Central Islip, New York.

ELECTRICAL DRAFTSMAN - Charles A. Mulligan, Inc., Central Islip, New York.

For further information, please contact Employment Supervisor Ext. 2109 or 2513.

Autos & Auto Supplies

68 GTO - Green/blk vinyl top, 400 cu in eng, must sacrifice. 722-3153.

63 MERCURY - 9 psgr, good cond. \$395. Al, Ext. 2407, 878-0175.

53 JEEP PICKUP - 4 w/d, V8, snow plow, 8 ply snow tires, new hubs, new brakes & cylinders around, many extras, very good cond. Steve, Ext. 2852, 727-5816.

64 CHEVY 1/2 TON PICKUP - 4 w/d, hubs, plow, needs a little work. Elob, Ext. 2436, 727-2346 eves.

62 FORD - 4 d, std trans, clean. \$300. Ext. 2495.

57 CHEVY CONV - Hurst shifter, V8, r/h, ps/pb. \$75. AT6-9197.

63 HILLMAN HUSKY STATION WAGON - Runs but needs work. Asking \$100. 878-2864.

COMPL GASKET SET - For eng overhaul, '61 or '62 Olds V8. \$12. R. Machinowski, Ext. 7228.

64 VW - Blue, good cond, new brakes, new muffler, good rubber, extras. \$495 firm. Steve, Ext. 7756.

66 PONTIAC EXEC - 4 dr, V8, auto trans, ps/pb, radio w/rear speaker, rear defrost, tinted glass. \$1100. LT9-3269.

SERVICE MANUAL - For '64 Buick Special & Skylark series. \$2.50. R. Hoyte, Ext. 7266.

61 CHEVY STATION WAGON - Eng out, auto trans. John, Ext. 7461, 744-8765.

67 MG MIDGET CONV - Red, r/h, toneau cover, excel cond. \$1450. 286-9225 after 6.

69 OPEL STATION WAGON - 13,000 mi, excel running cond, 32 mpg, excel int & ext. 281-9366 after 5.

64 TRIUMPH SPITFIRE - Blue, 4 spd, runs perfectly, 30 mpg, r/h, 31,000 mi, very clean. \$575. 475-2328 after 6.

65 HONDA - 350 cc, runs but needs little work, new f & r tires. \$200. 286-0091 after 4:30.

66 MUSTANG CONV - Red/white top, V8, 4 spd, bckts, console, wide ovals, rally pack, wood grained, excel cond. \$1295. Nielson, Ext. 7677, 325-0968.

66 MOTOR BIKE - 50 cc, low mileage, like new. \$120. 727-4030.

SLIP COVERS - Made for '69 Ford LTD, 2 dr, or any car in its class. \$15. J. Stafetas, Ext. 657.

60 OLDS 88 - Ps/pb, runs well, just needs head gasket. M. Strongson, Ext. 2727.

8.50x14 TIRES - Good tread. Both/\$15. M. Strongson, Ext. 2727.

68 HONDA - 65 cc, very low mileage, excel cond. \$150. Stan, Ext. 7139.

65 BUICK SKYLARK SPECIAL - Sports model, beige/white conv top, auto trans, console. 325-0675 eves.

AUTO AIR CONDITIONER - Mark IV. \$75. 273-6436.

61 FALCON - "It runs." \$50. 744-6636.

64 CADILLAC - Perf cond, see what luxury is, real leather int, new tires. Kahane, Ext. 2810.

63 VW CONV - Needs eng work. \$75. Mac, Ext. 7812/439.

63 RAMBLER SEDAN - Good looking but needs some eng work. Best offer. Mac, Ext. 7812/439.

62 JEEP STATION WAGON CHASSIS - 4 w/d, excel mech cond; 52 Jeep station wagon, 2 w/d, good body; combined unit will make good 4 w/d wagon. \$250/compl package. Bob, Ext. 2304.

66 VW PARTS - Wiper motor, steering post, all switches from dashboard, other misc parts. \$10 takes all. Bob, Ext. 2304.

66 IMPALA - Rebuilt head (valve job), new brakes, clutch & batt. \$850. Ken, 281-8622 after 6.

64 LINCOLN - 4 dr, full pwr, good cond. \$525. W. Lundgren, Ext. 7525, 588-1566.

64 CHEVROLET - 2 dr, 6 cyl, auto trans, r/h, \$640. John, Ext. 629.

Boats & Marine Supplies

28' HARKINS ISLAND SKIFF 1958 - 1" cedar planked hull, head, sink, stove, 35 w.s. & depth finder. \$2450. 878-0175.

15' THOMPSON - 28 hp Evinrude outboard, extras, painted, ready to go. \$475. Ext. 7166.

15' RUNABOUT - Little Dude tip trailer, 25 hp outboard, all extras. \$450. Charlie, Ext. 2340.

14' LAPSTRAKE - Outboard runabout, good cond, needs paint. \$25. B. Johnson, Ext. 573.

20' CABIN CRUISER - Plywood hull, 95 hp inboard fwc, head, galley, etc., extras. Petruk, Ext. 2142, AT6-0124 eves.

18' SEAMASTER BOAT - W/75 hp Johnson '61 outboard. \$350. GR5-7326 after 5.

17' THISTLE SAILBOAT - Dacron sails & spinnaker, good cond, ready to go. \$950. HR2-1833 after 6.

22' LUHRS HARDTOP SKIFF 1958 - 109 Grey Marine eng, sleeps 2, head, ss radio, outriggers, compass, anchor. \$1250 firm. Joe, MO7-7292.

JOHNSON 6 GAL GAS TANK - Excel cond. \$8. Bob, Ext. 2821.

22' OLYMPIA CABIN CRUISER - Nice combination of cabin & deck space, 2 bunks, head, sink, equipped w/'66 elec start Evinrude 40. \$600. Ext. 7559.

18' FIBERGLASS CABIN CRUISER - Sleeps 2, head, nylon top & side curtains, 80 hp elec start Johnson, used 3 summers, excel cond. \$1700. Leo Z. Ext. 2852, GR5-4557 after 5:30.

MICHIGAN PROP - SMC861, 10 1/4"x9", SMC862 10 1/4"x9", both new, make offer. Kazdin, Ext. 7575.

FOAM IN PLACE FLOATATION - For boat or swimming float. Kazdin, Ext. 7575.

PROPELLER - 13x12, 1" shaft, right hand, compl re-conditioned. Mike, Ext. 2582.

Miscellaneous

CAR SEAT - Never used, still in package. \$5. Al, Ext. 2407, 878-0175.

ELEC GUITAR - Hollow body, dbl pickup, w/case, new cond. \$50. Bob, Ext. 2821.

GUITAR - Wood, folk, canvas cover incl, good cond. \$20. S. Munsterman, Ext. 670.

TENT - 10'x18' Continental Sears, excel cond, w/ carrying bags & rm divider. Orig cost \$180, ready to go for \$120. Paffrath, Ext. 2287.

FOR CHILDREN 7-12 - 20 vol Science Encyclopedia, 6 vol World Atlas, like new, less than 1/2 price. \$20. A. der Mateosian, 286-0932.

TAKE YOUR FAMILY TO VT - 1 wk vacation, July through Sept, new home, sleeps 7. \$50. 281-9411.

BUILDING A HOME? - Set of oak front stairs, new & assembled, compl w/bannister, 8'6" floor to floor, 3'6" wide. Ext. 2989, 473-7657.

2 BROADLOOM RUGS - Matching, all wool, just cleaned, sandalwood color. \$40 ea. Tut, Ext. 2474.

HAMMOND ORGAN - 21 voices, built in Leslie unit, walnut finish, 1 yr old. H. Lobe, Ext. 2314.

TRAVEL TRAILER - 16' Shasta, self-contained, sleeps 5, hitch (Reese), brake control, spare, excel. 584-5325.

SLIDE RULES - 10" & 5" Post Versalog, 23 scales, leather cases, magnifier & text. Cost \$50, sell \$30. Ext. 7815.

INTERNATIONAL CUB CADET - 10 hp, w/42" rotary mower. \$500 firm. 286-3647 eves.

GARRARD SL95B TURNTABLE - Base & dust cover, Stanton 681EE Cart. \$115. Ed, HR3-7324 after 7.

LAFAYETTE 1500T RECEIVER - 2 Criterion 5x4 speakers, Garrard SL95B turntable w/Stanton 681EE cart. All/\$500. Ed, HR3-7324 after 7.

7 PC DIN RM SET - 2 leaves, excel cond. Panasci, 585-2908.

SINGER SEWING MACHINE - Slant needle, model 404, fine cond. \$45. Ext. 2101, AT6-0384.

PIONEER STEREO SYSTEM - 115 watt am/fm receiver, turntable, 2 speakers. New \$550, sell \$250. Ken, Ext. 7493.

LANCER FOLK GUITAR - W/picks, excel cond. Asking \$15. L. Christoffersen, 286-8927 after 6.

SKATES - Men's size 7, excel cond, used 5 times. \$5. L. Christoffersen, 286-8927 after 6.

WOODEN SKIS - W/soles, 5'7" Van Hill w/Dover cable bindings, good cond. Asking \$20. L. Christoffersen, 286-8927 after 6.

BIRDS FLY, BEES FLY - Learn about the birds & bees, discover flying, experienced certified pilot. \$3/1/2 hr. A. Roesch, Ext. 7667.

BRITANNICA JUNIOR - 15 vol set, like new, w/table stand. \$40. A. der Mateosian, 286-0932 after 6.

JIG-SAW FANS - Springbok puzzles, used once or twice, 1/2 price. \$1.75 ea. A. der Mateosian, 286-0932.

TENT CAMPER - Apache Eagle, sleeps 4, alum cover, canopy, extras, excel cond. \$500. B. Johnson, Ext. 573.

HALLICRAFTERS S-108 - Good cond, w/manual. Danny, Ext. 7421, 744-5969 after 4.

BICYCLES - Girl's, good, \$15; boy's, fair, \$5. JU5-8322.

GUITAR - Elec, 6 string, 2 pickup, \$30; Argus 35 mm camera, 2 lenses, flash attachments, \$40. Reilly, Ext. 2382.

AQUARIUM EQUIPMENT - New, never used, 14 separate items in orig pckgs, 10 gal tank, air pump, extras. \$20. Hodge, JU8-7211.

B^b CORNET - Bach Stradivarius, good cond, \$100; Hanson surfboard, 8'2" custom, good cond, \$75. Shreeve, 286-8807.

ENGLISH SETTER PUPS - Males & females, shots, registered, champion bloodlines, healthy, reasonable. 589-8443.

LAST CHANCE - FREE! - 6 mo old kittens, 1 all blk long haired, 3 misc, used to staying outside. Weeks, Ext. 346, 751-1149 after 6.

ROLL TOP DESK - 36x66x42, \$175; antique zither, 1890 w/music & picks, \$75; crank phonograph, 30 yrs, \$30. Ext. 7677.

4'x8' REDWOOD PLYWOOD - T-111 textured, 4" grooves, 3/8" thick. First \$10 gets it. Kazdin, Ext. 7576.

UNIVERSAL DRAFTING MACHINE - New. Orig cost \$150, sell \$75. Kazdin, Ext. 7576.

1965 APACHE TENT CAMPER - "Chief," very good cond, extras. \$350. 281-8529.

STEREO AMPLIFIER - Eico ST40, 40 watt; Eico HFT90 fm tuner; both excel cond. \$40/both. Stan, Ext. 2956.

CEDAR PICKET FENCE - 4' high, w/gate & hardware, in sections, about 140' long. \$45. Ext. 2304.

TUXEDO - 2 ruffled shirts, cummerbund, cuff links, studs, for man 5'9", 165 lbs, \$25; 2 off white dinner jackets, \$4. Ext. 2304.

14' BULL WHIP - \$20. Howard, Ext. 2304.

ANTIQUES ANYONE - Cabinet style Victrola w/crank; sm old fashioned ice box; best offer. Mac, Ext. 7812/439.

HORSE TRAILER - Partly constructed, must sell, \$125; mahogany table, leaves down both sides, opens to 54x36, \$25. Mac, Ext. 7812/439.

PHILCO REFRIG - \$40; upright piano, \$50; folding cot, needs mattress, \$5; steam iron, \$5. Mac, Ext. 7812/439.

FOLDING SLANT BOARD - W/built in vibrator, \$10; exercise rowing machine, \$10. Mac, Ext. 7812/439.

SLOT CARS - 5 cars, 3 controls, tool box, many spare parts, unbuilt motor, carrying case. D. Farrell, 588-9548 after 5.

BUNK BEDS - \$15. Al, Ext. 2407, 878-0175.

SOFA BED - 3 yrs old, w/innerspring mattress, like new, w/new custom made slip covers. \$125. YA4-8462 after 6.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

For Sale

SETAUKET N. - 3 bedrm ranch, 1 1/2 baths, lg basement playroom, w/w, 5 appliances, patio, 1 1/2 car att garage, wooded, landscaped 1/2 acre, near mill pond. Ext. 2994, 751-5867.

SHIRLEY - 5 rm split level, 3 zone h/w heat, 1 1/2 baths, separate garage & workshop bldg 25'x30', 150'x125' fully landscaped, 1/2 mile from Smith Point Bridge. \$23,500. 281-8396.

ROCKY POINT - 3 bedrm ranch, 1 1/2 baths, playrm, lg kitchen, liv rm, din rm, w/w, drapes, s/s, oversize garage, wooded 1/2 acre on cul-de-sac, beach rights. \$29,900 (take over 6% mort). 744-5901.

For Rent

FURN HOUSE - Spacious, new, 5 bedrms, Brookhaven, avail 8/25/70-8/23/71. \$295/mo. Lacks, Ext. 359, 286-0002.

Wanted

PORT-A-CRIB - Or child's travel bed in good cond & reasonable. 929-4787.

FEMALE VOCALIST - To join established standard & rock band. B. Vitale, Ext. 600.

TRUMPET PLAYER - To join established standard & rock band. B. Vitale, Ext. 600.

CLEANING WOMAN - Reliable, own trans. 475-6288 after 6.

PROSPECTIVE MEMBERS - For Parents without Partners, chapter 308, social activities, guest speakers, trips, lots of fun for all. Lee, Ext. 7637, 281-3259.

3 OR 4 BEDRM HOUSE - Rent w/option or towards purchase, Shoreham area, no agents, 744-6174.

TUTOR - To teach basic music instructions for mandolin. AT6-1192.

HOMES - For shepherd-mix puppies, shepherd markings, 8 wks old. Gail, Ext. 7637, 475-2151.

BABYSITTING - Mother will babysit for preschool child at home, Riverhead area. O. Booker, Ext. 2411.

FUEL TANK - For Evinrude outboard. JU5-8322.

OFFICE SIZE DESK - Any cond, will refinish, reasonable. Marie, Ext. 2588.

TAXPAYERS - Federal & State income tax forms prepared in the privacy of your home or mine. GR5-8330.

PETS - If going on vacation, reliable pet sitting, reasonable. Tony, 924-8225.

PRESCHOOL TOYS/EQUIPMENT - For day care center, needed: tables, chairs, shelves, trikes, wagons, puzzles, books, records, etc., any cond. Mrs. C. Holt, 724-6161, 281-6753 eves.

AM-FM STEREO RECEIVER - M. Strongson, Ext. 2727.

1 OR 2 TIRES - 165x15 or 6.85x15 low profile. M. Strongson, Ext. 2727.

Carpools

DESIRE DRIVER - To compl carpool from Massapequa-Wantagh vicinity, VW OK. Ext. 2942.

RIDE WANTED - Paying rider or driver in carpool from Lake Grove area. 588-1566.

Lost and Found

FOUND - Umbrella, in US Post Office. Ext. 7238.

Personnel Services

At The Recreation Office Open Daily 9:00 - 1:00

New York Mets Tickets

Ticket reservations for the 1970 season are now being accepted. As in past years, BERA has eight box seats for each of 50 playing dates including 12 Sundays, 35 nights and 2 holidays. Tickets are priced at \$4.00 apiece. Schedule is posted in the Recreation Office.

Discount Coupons

Barnum & Bailey Circus at Madison Square Garden.

Evening performances only on April 7, 8, 9, 14, 15, 16, 21, 22, 23, 28, 29, 30, May 5, 6, 7.

Regular Price	With Coupon
\$8.00	\$6.50
7.00	5.50
6.00	4.50

These coupons are presented at the Madison Square Garden Box Office or mailed with remittance to: Ticket Dept., Madison Square Garden Center, 4 Pennsylvania Plaza, New York.

Automobile Show at the New York Coliseum. April 4-12. Admission with coupon - \$2.25.

New York Theater - "Your Own Thing" at the Orpheus. Now through April 5 (limited supply).

Westbury Music Fair - No program or price listings for the new season have been received at this time. There is a possibility that the Music Fair will not be offering industrial discounts this year. More about this when official notice has been issued.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

- The Brookhaven Bulletin'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.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- 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.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the