



BROOKHAVEN BULLETIN

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Modern Alchemy With Accelerators

In the 82nd Brookhaven Lecture, Chemist James B. Cumming will describe modern alchemy on Wednesday, March 12, at 8 p.m. in Berkner Hall. Dr. Cumming will be introduced by Chemistry Department Chairman, Gerhard Friedlander.

When nuclei are bombarded with high-energy protons in the Cosmotron or AGS, isotopes of virtually all elements lighter in mass than the targets are formed. The nuclear chemist seeks to understand and interpret such observations in terms of reaction mechanisms such as fission, spallation, or possibly other processes for formation of the various products.

The lecture will present a general picture of our knowledge of reactions induced in targets such as uranium and gold by high-energy protons. Some experiments which measured the energy spectra and angular distributions of products typical of specific types of reactions will be described. These results may be used to set up or calibrate models for the fission and spallation processes. Such models are then used to elucidate formation mechanisms in systems where several mechanisms may contribute.

Dr. Cumming, a native New Yorker, attended New York City public schools and graduated from Andrew Jackson High School in 1946. He was one of the early Westinghouse Science Talent Search winners.



James B. Cumming

While attending Yale University, he majored in chemistry and was a member of Phi Beta Kappa, and winner of the George Beckwith Prize in astronomy. He received his BS degree with honors in 1949.

His graduate work was done at Columbia, and he was an AEC Predoctoral Fellow at Nevis Cyclotron under the direction of Professor J.M. Miller. After he received his Ph.D he joined the staff of the BNL Chemistry Department in 1954. His research interests have been in the study of high energy nuclear reactions at the Cosmotron and the AGS, as well as the study of nuclear decay schemes.

He is a member of the American Physical Society and the American Chemical Society, and a Fellow of the American Institute of Chemists. He lives in Bellport with his wife and two sons.

Refreshments will be served in the lobby of Berkner Hall following the lecture.

Dust Thou Art, But Mostly Water

The approximate value of all chemicals in the average adult human body is \$3.50, according to Donald T. Forman, assistant professor of biochemistry in the Northwestern University Medical School and head of the chemical laboratory at Northwestern-affiliated Evanston Hospital.

This represents a 257 percent increase over the same chemicals' estimated Depression-era value of 98 cents in 1936.

In percentage terms, the adult body is composed of: Oxygen, 65 percent; Nitrogen, 3 percent; Calcium, 1½ percent; Phosphorus, 1 percent; Other elements, including traces of gold and silver, 1½ percent.

Radiation Processors Confer



Edward P. Stahel, Department of Chemical Engineering of North Carolina State University chats during a coffee break with Donald Metz, conference host. Stahel had just finished addressing the meeting on Radiation Chemical Processing on the Campus. —Humphrey

The Future and BNL . . .

Shaping the Environment of Federal Laboratories

Put a red circle on your calendar around the evening of March 20. If you are interested in BNL and its future as a federal laboratory, then you will be interested in what U.S. Representative Emilio Q. Daddario has to say on the subject.

He is going to give the eighth AUI Distinguished Lecture that evening starting at 8:30 p.m. And he is well qualified to speak on "Shaping the Environment of Federal Laboratories."

Emilio Q. Daddario, a resident of Hartford, Connecticut, has represented the First Congressional District of Connecticut since 1959. A Democrat, he held prior political office as Mayor of Middletown, Connecticut, and has served as judge of the Municipal Court in Middletown.

Elected to the House of Representatives in 1958, he was assigned to the Committee on Science and Astronautics. He is now chairman of its Subcommittee on Science, Research and Development, as well as second-ranking member of the subcommittee which oversees manned space flight programs of the National Aeronautics and Space Administration. He has also served as chairman of a select subcommittee to review patent provisions of the Space Act as they affect the national program, as well as scientific inventions so derived. His work on the research and development subcommittee earned him these plaudits from SCIENCE Magazine, the publication of several thousand American scientists in the American Association for the Advancement of Science, that he has "chosen the stance of statesman, seeking a balance between his own independence and harmony with the National Academy of Sciences and other venerable institutions of science."

Congressman Daddario has supervised a major legislative review of the National Science Foundation and was the author of legislation passed and signed into law in 1968 to revise and bring up to date this arm of government.

He is a trustee of Wesleyan University, a member of the Board Regents of the University of Hartford, and a member of the advisory committee of the Harvard University Program on Technology and Society, which is undertaking a major long range study of the effects of science on our Society. He holds honorary degrees from Wesleyan University (Doctor of Science), and from Rensselaer Polytechnic Institute (Doctor of Laws).

The House Subcommittee on Science, Research and Development issued a report on October 20, 1968 calling for broad changes in the Federal laboratory system. The report emphasized the need to utilize all available scientific and technological resources in the fight to surmount the social and environmental problems confronting the nation.

In releasing the report, Representative Daddario, Chairman of the Subcommittee, stated: "Much research and development is needed to restore the quality of our environment; to cope with crime; to solve the transportation crisis, and to supply food, water, and shelter to a growing population. But we are coming to realize that our resources assignable to science and technology are not infinite, and that they do have limits. Within these limits, we must accom-

modate the continuing demands for new research and development."

"I am not implying that every new agency or every new program find accommodation for all of its research and development within existing Federal laboratories, but I am saying we should look first to the expertise we already have developed to see how this existing competence can be applied to new areas of opportunity."

There are over 100 laboratories of substantial size in the Federal establishment in which the government has invested over \$11 billion in laboratory plant and equipment. These laboratories are currently spending about \$3.5 billion annually for research.

The report points out that the response of individual Federal laboratories to national needs and problems depends upon the accident of sufficient interest by the laboratory director and his staff, and whether he has the authority to undertake limited research and development that may go beyond specified agency functions. To date this response has been inadequate, and new methods and stimulii are needed to cope with national problems such as transportation, housing or crime.

Among the many recommendations to improve the effectiveness of laboratories, the report suggests that laboratory directors be given a discretionary allotment of funds to be used for forward-looking research relevant not only to agency interests, but also for research aimed at solving certain national problems in which the laboratory may have a capability - even though the work may be outside the strict jurisdictional responsibilities of the agency.

Tickets may be reserved by telephoning the Director's Office, Extension 2357. Please request your tickets as early as possible. Employees are encouraged to bring their families with them as well as friends and neighbors. There is no admission charge.

Coming Attractions

- 3/12 Navy Meeting
"The Health Science Center, SUNY"
Dr. E. Pellegrino
(Brookhaven Center - 7:30 p.m.)
- 3/12 BNL Lecture - James B. Cumming
- 3/19 Navy Meeting
"Comparisons of Contemporary Naval Medicine with WW II"
Capt. E.P. Cronkite
(Brookhaven Center 7:30 p.m.)

Radiation 'Snowminar' Starts on Schedule

The snow fell, the wind whipped up sizeable drifts around the site, and the Laboratory was officially closed for the day, but the BNL Seminar on Radiation Chemical Processing proceeded on schedule.

Donald J. Metz (DAS), prime mover of the Seminar, was on duty at the telephone at 6:30 a.m. Monday morning to get Bernard Manowitz, Meyer Steinberg, A.O. Allen, Frank B. Hill and R.C. Anderson to the Lab. Dr. George H. Vineyard, BNL's Deputy Director, welcomed the seminar attendees, and after D.M. Richman, Division of Research, AEC, made a few opening remarks, the Seminar got underway.

Dow Chemical's D.E. Harmer and N. Marans of the Research Division of W.R. Grace and Company were delayed in arriving at BNL, but were on hand Monday afternoon to deliver their addresses.

At the dinner Monday evening, J.G. Truxal of Polytechnic Institute of Brooklyn addressed the seminar on "Technology and General Education." In the discussions after dinner, it was generally agreed that, in spite of the snow and its problems, the meeting was a rewarding and informative one, and was well worth the effort.

Like the mail carrier, there is obviously no limit to the devotion of the dedicated chemist.



Bob Goodrich, DAS, who projected slides for speakers at the Radiation Chemical Processing Seminar.

Housing Headaches? Help Is Available

Houses for sale and for rent are advertised by BNL employees in every issue of the *Brookhaven Bulletin*. The BNL Housing Office maintains lists of houses and apartments, furnished and unfurnished, as they are received from real estate brokers, builders and private parties. These ads and lists include only a fraction of the housing available in the area. However, at the minimum, they give the house-hunter a place to start.

Acceptance of housing ads and listings by the *Brookhaven Bulletin* and the Housing Office is contingent upon a signed declaration that the residence is available without regard to race, creed, color or national origin. Please report any departure from this declaration.

The Housing Office will be glad to advise employees who experience undue difficulty in obtaining adequate off-site housing. On-site housing is sometimes available for temporary occupancy and, of course, is assigned on the basis of need, without regard to race, creed, color or national origin. Employees are encouraged to bring any special housing problems, particularly those concerned with race, creed, color or national origin, to the attention of the Housing Office which is prepared to assist in locating suitable housing. If desired, such information will be treated as private.

Dollars and Sense

Leon Meshel

To Overlook Is To Overpay
by Frank Federmann

BNL employees who itemize expenses on their income tax returns are generally aware of the medical, charitable contribution, tax expense and interest expense deductions allowed. A category often overlooked appears on line 16, page 2 of Form 1040 - Miscellaneous deductions.

There are seven broad areas into which items deductible under miscellaneous expenses can be grouped.

1. **Child care expenses.** The expenses which would qualify for this deduction are payments to baby sitters, nurses and others who cared for certain taxpayers' children or dependents. A limited deduction is allowed for expenses paid by a taxpayer who is a woman, a widower, or a divorced person for the care of a child under 13 years of age, or any child or other dependent who is mentally or physically incapacitated, but only if such care is for the purpose of enabling the taxpayer to be gainfully employed. The deduction is limited to a maximum of \$600 for expenses incurred for one dependent and \$900 for expenses incurred for two or more dependents. This deduction is separate and apart from the \$600 exemption allowed a taxpayer for each dependent.

2. **Educational expense.** The BNL policy has been to reimburse an employee 100% of tuition costs for courses taken which relate to the employee's work or profession. However, tuition is not the only expense which can be considered an educational cost and hence be itemized as a miscellaneous deduction. Other deductible expenses are: travel costs from job to school (not from school to home); books and supplies; and other school fees. The criteria for taking the educational deduction are: 1) the courses are necessary to improve or maintain professional or technical skills; and/or 2) the employer expressly requires the schooling in order for the employee to maintain his job. It should be remembered that unreimbursed tuition costs of a taxpayer are also deductible.

3. **Casualty losses.** When damage to a taxpayer's real or personal property results from a sudden, unexpected, or unusual cause (storm, theft, auto collision, etc.), a deduction is allowed for tax purposes. The deduction is calculated by determining the fair market value of the property just prior to the casualty loss and immediately following the loss. The difference in value,

less insurance recoveries, is deductible to the extent it exceeds \$100 per occurrence.

4. **Employee business expenses.** Generally, employees may deduct necessary and proper unreimbursed business expense. *Dollars & Sense* articles have dealt with some deductible expenses such as: employee travel 2/6/69, deductions for reservists 10/31/68, and moving expense 8/22/68. In addition to the areas mentioned, deductions are allowed for: purchase, maintenance and repair of special clothing and equipment required by the taxpayer's profession or trade; fees paid to employment agencies for securing a job; subscriptions to technical, trade or professional magazines or journals; and dues or license fees paid to unions or professional or technical organizations.

5. **Expenses connected with collection or production of income.** Investment counseling fees and investment subscriptions (e.g., Forbes, Fortune, Wall Street Journal, Business Week, etc.) as well as safe deposit box rental (if used to contain securities, bonds, etc.) are tax deductible expenditures.

6. **Alimony payments.** Where there is a legal divorce or separation specifying alimony payments, these payments are deductible as an expense, and the recipient must report them as other income. In the event payments are specified as child support, no deduction is allowed for the payment and the recipient does not report the receipts as income. Care must be exercised as to which parent may properly claim the \$600 exemption for each child.

7. **Other items.** Fees paid for the preparation of your tax return are deductible in the year paid.

While it has not been possible to include all of the miscellaneous deductions, nor to fully explain those deductions set forth above, one or more of the areas highlighted may apply to you - if this is the case, investigate the area or areas and fully utilize the deductions allowed under the Internal Revenue Code. An overlooked deduction can cost you money.

Pellegrino To Address Navy Unit

"Planning for Health Sciences at Stony Brook" will be the topic under discussion at the Navy Meeting on Wednesday, March 12. Dr. E.D. Pellegrino of SUNY's Health Sciences Center will give a general outline of Stony Brook's commitments to the problems encountered in health care.

The meeting will be held in the Brookhaven Center, beginning at 7:30 p.m.

June Date Set For AEC Medical Seminar At Brookhaven Lab

A two-day Medical Seminar for Science Writers and Newsmen will be held June 9 and 10 at Brookhaven National Laboratory.

The seminar called "Atomedical 69" will provide up-to-date reports on some of the more significant work now being supported by the AEC. In the past, AEC medical research programs have involved studies in aging and immuno-suppression, research on the causes and treatments of cancer and new tools and techniques for diagnosis and treatment such as scanners and teletherapy units.

"Atomedical" is co-sponsored by the AEC and the National Association of Science Writers. Brookhaven National Laboratory will host the meeting. At the end of the session the Laboratory will offer a tour of its medical research facilities.

Among the topics to be included in the "Atomedical" program are bone marrow transplants, x-ray fluorescence, neutron therapy, the chemistry of cancer and new approaches to neurological diseases.

The list of scientists includes: Dr. Norman Anderson, Oak Ridge National Laboratory; Dr. Victor Bond, BNL; Dr. Charles Congdon, ORNL; Dr. George Cotzias, BNL; Dr. Eugene Cronkite, BNL; Dr. Alexander Gottschalk of Argonne Cancer Research Hospital, Chicago; Dr. David Hume, Medical College of Virginia; Dr. Takashi Makinodan, ORNL; and Dr. James Regan, ORNL.

Here and There

Dolores del Castillo

Powell Richards (DAS) participated in an AEC-sponsored meeting on the preparation and use of cyclotron-produced short-lived radioisotopes in medicine. The meeting was held at Washington University School of Medicine in St. Louis, Missouri, February 25 and 26.

Jean Crussard of the French AEC is visiting the Laboratory today and tomorrow for discussions on accelerators and bubble chambers.

The 1969 Annual meeting of the American Physical Society was held in New York City on February 3-6. Among the symposium speakers were M.L. Perlman ("Chemical Bonding Information from Internal Conversion Measurements"), Karl Beckurts ("Statistical Beam Modulation Techniques in Neutron Physics"), and Harry Palevsky ("Scattering of High Energy Protons from Nuclei").

Others were J.D. Axe, J.B. Sokoloff, R.M. Sternheimer, Luke C.L. Yuan, N. Garcia, D.I. Garber, R.E. Chrien, O.A. Wasson, M. Beer, M. Strongin, O.F. Kammerer, J.E. Crow, R.S. Thompson, J.M. Dickey and J.W. Olness.

Among the authors of papers presented at the meeting were: W.R. Harris, K. Nagatani, D. Alburger, A.P. Zuker, B. Buck, V.E. Barnes, S.U. Chung, E. Flaminio, K. Jaeger, N.P. Samios, I.O. Skillicorn, J. Alitti, W. Metzger, R.R. Rau, R.L. Eisner, D. Luers, C.M. Ankenbrandt, H. Kasha, R.C. Larsen, L.P. Leipuner, and L.W. Smith.

George Parzen (Accelerator) addressed the Suffolk Community College last evening on the subject of "The Anti-Ballistic Missile, the Nuclear Armament Race and National Priorities."

F.X. Rizzo (DAS) was in Washington to chair a meeting of the Gamma Dosimetry Section of Subcommittee D9/20 of ASTM on March 3. L. Galanter (DAS) attended the meeting also.

Public Sale of Motor Vehicles

Twelve (12) motor vehicles, located at Building T-87, will be available for Public Sale.

Inspection will be permitted from March 17th through March 21st, during hours from 9 a.m. to 4 p.m., except Saturday and Sunday. Bid openings will be held on March 25th, 1969.

The sale will be conducted by General Services Administration. For further details, call Extensions 2509 or 2704.

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Letters To The Editor

Dear Editor and Staff:

Under its "new" management the *Bulletin* continues to improve and flourish. It's probably the most read piece of paper on site.

One thing about the *Bulletin* puzzles me. There are lots of interesting articulate people here who have things to say. The *Bulletin* would be even better if some of them would occasionally write for you an article of interest to BNL'ers. Almost any subject may be appropriate but, please, no crusades. Perhaps we need a published policy on this subject encouraging contributions related to BNL or of interest to its people, so long as it's fit to print. The *Bulletin* is for us. Let's support it.

Flower Child

Editor's note *The Brookhaven Bulletin will welcome any literary contributions from employees of the Lab. As Flower Child says, almost any subject is appropriate, but please, no crusades. Material should be typed, double spaced on one side of eight and one-half by eleven in. paper, and should be no more than 1000 words long. If pictures are to accompany the article, they should be glossy prints 4" x 5" or larger. Short articles about visits to foreign lands or visits from foreign scientists should prove interesting, as well as stories about incidents connected with day-to-day work at the Lab. Each article submitted will be given careful consideration by the editor, and, if printed, will be credited to the author. All submitted material will be subject to the usual editing procedures of the Brookhaven Bulletin.*

Dear Sir,

It's income tax time again, for millions in this nation.

A time again for Anxiety and Frustration.

Shall I use the short or long form, which one suits me best?

I've got to get a refund, or I know I'll never rest.

I must include everything deductible, and not leave anything out,

For when I mail my form in,

I don't want room for doubt.

I have never received a refund, and that goes without saying,

Instead of receiving, I'll probably wind up paying.

Charles LoDe,
Central Shops Welding

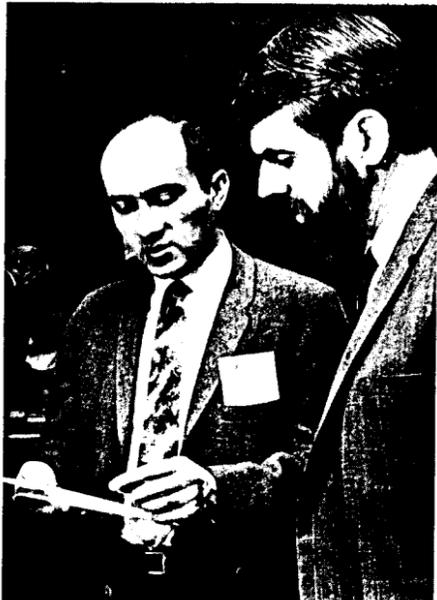
Cafeteria Menu

Week Ending March 13, 1969

Friday, March 7	
New England Clam Chowder	
Romanian Pastrami	.65
Seadfood Au Gratin Casserole	.75
Combination Seafood Platter	.75
Spanish Omelet	.55
Fillet of Flounder Hero	.70
Monday, March 10	
Split Green Pea Soup	
Mushroom Steak/Mushroom Sauce	.65
Chili Con Carne/Steamed Rice	.60
Apple Pancakes/Maple Syrup	.60
Mushroom Steak Hero	.75
Tuesday, March 11	
Chicken Noodle Soup	
Roast Pork Loin/Spiced Applesauce	.65
Beef Chow Mein/Steamed Rice	.65
Veal and Peppers	.65
Veal Cutlet Hero	.75
Wednesday, March 12	
Cream of Tomato Soup	
Salisbury Steak/Brown Gravy	.65
Eggplant Parmigiana	.60
Glazed Ham Balls	.60
Western Omelet	.55
Salisbury Steak Hero	.75
Thursday, March 13	
French Onion Soup	
Roast Tom Turkey/Celery Dressing	.65
Shepperds Pie En Casserole	.65
Stuffed Green Peppers	.55
Cheese Omelet	.55
Hot Corned Beef on Rye	.75

Rifle and Pistol Club

The BNL Rifle and Pistol Club will meet on Friday, March 7, at 8 p.m. in the Recreation building in the Apartment area. For further information contact Joseph Gatz, Extension 7232.



Meyer Steinberg, DAS, (upper left) presents a paper on the Development of a Radiation Process - Polyethylene. Toni Salamone, (upper right) Conference receptionist, checks agenda with Charles Bonilla of Columbia University. Members of the Department of Applied Science (lower left) listen to papers presented. They are Walter Tucker, James Sutherland and George Adler. Bernard Manowitz, Radiation Division Head, DAS, and John Cusack, HIRDL Head (lower right) discuss a presented paper during a break. —Humphrey

Nuclear Midshipmen Tour Reactors Here

A group of 18 midshipmen taking the nuclear engineering course at the US Merchant Marine Academy at Kings Point visited BNL last Wednesday. They were accompanied by three of their officer-instructors, and spent the day touring the three reactors and the AGS.

The Brookhaven facilities provide a close hand view of activities in the nuclear field needed by these midshipmen in their subsequent service aboard the N.S. Savannah.

In addition to the reactors viewed, a visit was made to the High Intensity Radiation Development Laboratory where an explanation of the handling of intense radiation sources was given.

Each year a similar group from the Merchant Marine Academy comes to BNL for a tour and indoctrination lectures by members of the BNL staff.



Charles Flood, Health Physicist at the Medical Research Reactor explains a model to the midshipmen.



John Halpin, HFBR, briefs midshipmen on the HFBR before starting a tour.



Julius Milau explains the working of a hot cell at HIRDL.



At the AGS, Al Schlafke of the Accelerator Department describes the workings of the accelerator to the assembled midshipmen.



Carolyn Wuest, Physics Department, leads the touring officers and midshipmen to their bus at the conclusion of the tour of the Laboratory. —Humphrey

Eighteen Admissions For Only Ten Dollars

Show your interest in the BERA Film Study Group by buying a subscription ticket for the Program Series.

This \$10.00 ticket will entitle you to see 10 commercial films and at least 4 special bonus films (for you and 1 guest); a total of 18 admission entrances guaranteed.

Talk to Vickie Levis the Activity Chairman, on Ext. 2341, or Blanche Laskee of the Recreation Office, Ext. 2808, for more information.

Ticket Service

Ticket Order Service at the Recreation Office will be closed starting Thursday, March 6 and extending through Friday, March 14.

Concert Tonight

Lyric soprano Joy Kim, will be the featured artist of the fifth concert of the 1969 BERA Concert Series, tonight at 8:30 p.m. in Berkner Hall. Miss Kim will be accompanied on the piano by George Malloy.

Science Writers Here For Annual Seminar

Nine Fellows of Columbia University's Advanced Science Writing Program of the Graduate School of Journalism are concluding a two-day visit to Brookhaven National Lab.

The science writers are accompanied by Kenneth Goldstein, acting Director of the program in the absence of Director John Foster, Jr.

Each year a group of participants in the program attends seminars at industrial and government research and development centers for one- to four-day explorations of current work and facilities. These seminars not only give a broad picture of American research and development, but help develop background and sources of information which the Fellows maintain when they resume their professional careers.

On Wednesday the group was welcomed by Norbert Derbach, Public Relations Officer, and viewed a screening of the *Brookhaven Spectrum*. Before leaving the Conference Center for a tour of the AGS, Nicholas Samios, Physics, led a discussion of high energy physics research.

Wednesday afternoon was devoted to tours of the 80" Bubble Chamber, the Graphite Research Reactor, the Chemonuclear Loop, and the High Flux Beam Reactor. David Alburger, Physics, was leader of a discussion on low energy physics at the Cyclotron-Van de Graaff building.

Thursday's program opened with a discussion of Biology research and a tour of the Biology Department led by C.H.W. Hirs, followed by a presentation on the Ecology program by George Woodwell. Chemistry Research, and a tour of the Chemistry Department, will be under the direction of Lewis Friedman.

Thursday afternoon will be devoted to a discussion of Radiation Development Research with Bernard Manowitz, and a tour of the High Intensity Radiation Development Laboratory. An informal seminar on Medical Research will be led by Doctors L.K. Dahl, K.R. Rai and P. Papavasiliou as a prelude to a tour of the Medical Research Center.

Slo-Break Basketball

by Jack Brennan

In last Thursday night's first game the Rat Pack and Biology could muster only 5 men apiece, and after playing even through the first half, the Pack's height and youth let them pull away and win 48-35. Lou Snead had 19 points and John Capute 12 points for the Rat Pack, while Joe Abata had 13 points and George Latham 8 points for Biology.

The Highballs remained undefeated by taking the Stratums 35-23. Johnson scored 12 points for the Highballs, while Oscar Thomas had 8 points for the Stratums.

Medical won by forfeit from Physics.

The Knacks remained undefeated by downing the Old Timers 47-36. George Leverock, Tom Nelson and Larry Johnson each scored 9 points for the Old Timers. Andy Fogarty had 14 and Bob Casey 13 points for the Knacks.

The standings -

Associated League		Won	Lost
Knacks		4	0
Rat Pack		2	1
AMD		1	2
Biology		1	2
Old Timers		0	3
Universities League			
Highballs		4	0
Stratums		2	2
Medical		2	2
Physics		0	4

Cooking Exchange Meeting

On Thursday, March 13, 1969, a meeting of the Cooking Exchange will be held in the Apartment Area Recreation Building from 3 to 5 p.m. "Breakfast in Various Parts of the World" will be the theme for the cooking demonstrations. This is the second installment of the theme.

Each adult will be asked to contribute 50¢ to pay for the cooking demonstrations and the babysitters provided for the children.

Bowling News

Irma Carl

Purple League

Fiscal waited until the start of the last round to make their move - for the cellar that is - we did it and now have no place to go but up. Am afraid that if the Fiscal girls' team challenged us we would lose to them too!!

The Phoubars continue to move ahead and now have an eight point lead over their nearest contender. The better bowlers were Vinnie Felice 543; Joe Scesny 202-536; Carl Cantera and Tom Lee 507; Mike Iarocci 506; Joe Rolfes 504; and Joe Nocar rolled a 206.

Red League

The Sandbaggers have increased their hold on to first by 6 points over the Dimwits, the new second place team. Good games were rolled by: R. Larsen 220; S. Kiss 211/200; R. Meier 210/203; R. Nelson 210; D. Sick 208; F. Abbatiello 204; N. Parrinello 201; and J. McGovern 200. R. Nelson still maintaining high average of 180.

Green League

Four points separating the first place team (Electrons) from the Fire Department. C. Tomesch came up with a 236/547; G. Hardman 193/526; S. MacCormack 197/519; and M. Kinney 197/518.

Pink League

The half-way mark of the second half finds the Pinsplitters in first, followed closely by the Medigals who are followed by the Fiscal Assets, the Hopefuls, Fizzles, All Toes, Bookies, and last but not least, the Bio Boozers. Kay Trautwein and Mike Madden both bowled well over their averages. Results of L.I. Bowlers Benefit Tournament will be announced soon.

BERA Film Series

Thursday, March 13, 8 p.m. - Berkner Hall

Four short films will be shown to Subscription ticket holders and their guests.

Fun Factory - Mack Sennett's rise from "extra" to a producer credited with developing slapstick as a comedy form and creating such stars as Turpin, Carole Lombard, Charlie Chaplin, and Marie Dressler.

Pablo Casals Plays Bach - Brief visit to the town of Prades in the French Pyrennees where Casals resided until his move to Puerto Rico. After a cello lesson, Casals plays Bach's Suite No. 1 in G Major for Unaccompanied Cello.

Monument To The Dream - What goes behind building a Chicago Picasso? What went behind building the St. Louis arch? A detailed account of the artistic and engineering efforts which contributed to the creation and construction of the St. Louis arch.

Hat - An animated film in which two soldiers on opposite sides demonstrate while arguing the ownership of a helmet that the establishment of world law is the only solution to international discord.

Subscription tickets will be on sale at the door. The tickets, which cost \$10 each, are for ten regular admissions, and include admission for you and your guest to all special showings during the year. Subscription tickets expire one year from date of purchase.

Arrivals & Departures

Arrivals

James Bruce Healy.....Physics
Heinrich Heesch.....App. Math.
Bill R. Watson.....Accelerator

Departures

Peter Bodlaender.....Biology
Charles A. Casey.....Accelerator
Louis F. Donadio.....Mech. Eng.
Ruth J. Gardenier.....Security
Mabel Gondola.....Medical
Milton W. Gustavson.....Reactor
John F. Jacobs.....Inst. & H.P.
Valerie M. Johnson.....Medical
Rosemary Kanuga.....Medical
Richard Schiller.....D.A.S.

John S. Read of Pl. Eng. & Plan. who has been on Military Lv. of Absence since May, 1966 returned to work on March 3, 1969.

Classified Advertisements

Autos & Auto Supplies

66 BSA LIGHTNING ROCKET MOTORCYCLE - 650 cc, dual carbs, candy apple red, immaculate, 7000 orig mi. \$950. 281-5289, 12-5 p.m.

FORD TRI-POWER & MALLORY DISTRIBUTOR - Fits 272-292-312 eng, askin'g \$60 for both; 2-14" mags, fit any car, \$45. Bill, Ext. 7236.

63 DODGE 440 STATION WAGON - V8, perf running cond, auto trans, ps, needs work on front fender & bumper. \$325. C. Kyriakakis, 281-3984.

64 COMET - 2 dr sedan, std trans, very good cond, new battery, 2 new snow tires, etc. \$575. G. Bengtson, Ext. 7574, 281-5463.

59 VW - Sun roof, runs well, good trans, 32 mpg, owner leaving Lab. \$100. Wolfsberg, Ext. 2462, LT9-4757.

62 FALCON STATION WAGON - 1 owner, 6 cyl std trans, good cond. A. Panasci, Ext. 2349, 585-2908 eves.

4 NEW FIRESTONE CHAMPION TIRES - 8.55x14, 2 ply rayon-4 ply rating. \$80 firm. John, Ext. 2143.

67 LINCOLN CONTINENTAL - Full pwr, air cond. \$3495. LT9-1106 eves.

67 VW STATION WAGON - Model 1500, blue, r/h, snows, extraordinary cond, 7000 mi. Ext. 7517, JU4-8492.

CYLINDER HEAD - For 6 cyl Chevy, fits '53-'62 models, completely rebuilt, never used, all parts checked. \$35. EM3-7038 after 5.

62 COMET - Rebuilt eng & clutch, trunk damaged but reliable for trans. \$100. Reich, Ext. 7409.

66 VW "BUG" - White, r/h, snow tires & rims, everything in good cond, 30,000 mi. Ext. 7517, JU4-8492.

60 CHEVROLET CONV - Body in good shape, doesn't run, good for parts. 281-8044.

67 RAMBLER REBEL - 2 dr sedan, 6 cyl, auto trans, r/h, extras, 20,000 orig mi, excel cond, very economical, still under 5 yr new car warranty. \$1475. 732-5829.

65 TRIUMPH - BRG, white conv top, tonneau cover, 4 spd synchro, AM/FM radio, overdrive, 4 good tires. AT6-8642.

66 DODGE - 2 dr hd tp, auto trans, floor shift, bckts, ps, 318 V8. Best offer. AT6-0518.

62 CHEVROLET STATION WAGON - White. \$250. Henry, Ext. 434

66 INTERNATIONAL TRAVEL-ALL - Excel cond. \$1,550. Anita, AT6-1114, AT6-9157.

63 VW - Std, 59,000 mi, transferable on 3/31. \$520. Sato, Ext. 345.

3 NEW TIRES - 6.50x14 w/rims, reasonable. Vinnie, Ext. 567.

58 DODGE CARRYALL - Runs, extra set of wheels, reasonable. O. Medeck, Ext. 316, 363-6439.

53 FORD 1/2 TON PICKUP - Custom. Jules, Ext. 576.

65 CORVETTE - New paint, new tires, 4 Keystone custom mags, fully alarmed, 2 tops, must sell. \$2600 firm. Frank, 588-6126 after 5:30.

63 OLDS F85 DELUX WAGON - 4 spd stick, 7 tires, fine cond, many extras. \$700. Ext. 2549.

55 BUICK PARTS - Completely assembled & functioning (?) in rusty body, used daily till 2/26. \$25 or make offer. J. Curtis, Ext. 371.

55 FORD 1/2 TON PICKUP - Jules, Ext. 576.

NEW DUNLOP TIRES - 6.95x14, w/w, 4 ply sidewall, 5 ply tread, 5 left, hurry! 692-7104.

59 FORD SKYLINER - Cruise-o-matic, 352 eng, pb, 2 new snow tires, new 42 mo battery, inspected. 475-9024 after 5.

62 TRIUMPH HERALD 1200 - Seats 4, very good motor & body, new tires & battery, starter, points & plugs. \$175. 475-5863 after 6.

51 CHEVROLET - Good cond. JU8-1889.

63 FORD 500 XL - Excel cond, 390 eng, 4 spd. 289-1623.

51 FORD 1/2 TON PICKUP - Compl eng overhaul, new clutch, fuel pump, radiator, 7 excel tires w/rims, body sound. \$200 firm. 732-3296 after 5:30.

67 F-250 CAMPER SPECIAL - \$500 extras, 5 new tires. \$1900. G. Formhals, Ext. 2412.

65 CHEVY IMPALA STATION WAGON - 1 owner, 6 cyl, std trans, very good. \$1050. Petruk, AT6-0124.

58 VOLVO - Not running, will sell compl or piece by piece. John, Ext. 2218.

66 MERCURY COMET - 2 dr, auto trans, white/red int, very good running & body cond. \$1250. Inal, Ext. 2851.

67 TRIUMPH GT-6 - Excel cond. G. Warner, Ext. 595.

Boats & Marine Supplies

15' LYMAN RUNABOUT - 35 hp Evinrude motor, Tee Nee trailer, garaged, extras incl. Jim, Ext. 2138, JU1-1224 eves.

16' THOMPSON - W/35 hp Evinrude in good cond, gas tanks, anchor, etc incl, college student needs money. Asking \$350. AT6-8544.

24' CHRIS CRAFT - Express cruiser, 2 bunks, head, sink, equipped. \$950. Ext. 7373, MO1-6078.

21' BAY CITY CABIN CRUISER - Sleeps 2, +2 kids, 95 hp f.w. cooled, used 3 yrs, like new. \$2100. Petruk, AT6-0124.

23' "GIL SMITH" SLOOP - Fiberglassed hull, dacron main, shelter cabin. Ext. 7233.

21' DELANEY - By far this year's best buy. Jeff, Ext. 654, by appointment only.

27' CHRIS CRAFT - 185 hp eng, used 150 hrs, radio, plus many extras, very clean. L. Emma, Ext. 642.

Miscellaneous

ON A CLEAR DAY YOU CAN SEE FOREVER - Get an eagle's eye view of your community, plane rental tab shared. A. Roesch, Ext. 7667, 2413.

SURFBOARD - Hobi 9'6", good cond, tailblock, red-wood stringers, stripes. Orig \$180, need money so selling at a steal of \$90. AT6-8544.

IRISH SETTER PUPS - AKC reg, champion bloodlines, 1 male, 2 females, 7 wks old. Ext. 600, 929-4631.

BEIGE NYLON RUG - 8x11, clean, no worn spots, free for the taking. H. Fosberg, Ext. 2293.

ELEC SHAVER - Handy travel pack, Worldwide Remington Model 550 Selectronic, cordless, new, used once. \$23. Ext. 509.

APACHE MESA FOAM MATTRESS - 49"x74"x3", brand new, never used. Sells for \$33.50, asking \$20. Mitchell, Ext. 2598.

HAM TRANSMITTER/EXCITER - Johnson Ranger II, CW & AM, 160-6M bands, 75 watts, VFO or XTAL controlled. \$187. N. Whitney, Ext. 7777.

TYPEWRITER - Old, usable, \$10. Ron, Ext. 2969.

CHEST FREEZER - International Harvester, approx 15 cu ft, excel cond. \$75. Bob, Ext. 2304.

HI FI MONAURAL - Eico FM tuner, \$15; Bogen turntable, w/Grado cartridge, \$15; Grommes 20 watt amplifier, \$10; or all for \$25. Ext. 7652.

ROTISSERIE-BROILER-OVEN - "Black Angus" king size, bakes, roasts, broils, barbecues, grills, fries, toasts & boils, like new, plastic cover. \$30. Ext. 416, 732-3296 after 5:30.

ICE-O-MAT CRUSHER - Perf cond. Orig \$10, sell \$6. Marcia, Ext. 2380.

REFINISHED GRAMMER SCHOOL DESKS - Excel for children's homework, some patented 1925. \$25 ea. Mike, Ext. 2867, GR5-8406.

SLOT CARS - Eldon 1/2 scale, 115 pcs of track, 1 transformer, no cars or controls, good cond. Sacrifice, \$10. Dave, 298-4453.

SPINDLE MAPLE HEADBOARD - Twin size, \$5; girls' size 2 blk tap shoes, 2; hand knit girls' bulky sweater, yellow, \$5. 585-3463.

OAK FIREWOOD - Seasoned, guaranteed to burn, long or sm logs, split, delivered or pickup, reasonable. 732-9517.

JEWELRY - Guaranteed, beautifully decorated. Bonnie, Ext. 2745.

SKI BOOTS - Ladies size 7, dble lace, made in France, very good cond. \$15. Fogarty, AT6-8952 after 5.

1 1/2 HP HIGH VOLUME WATER PUMP - Shallow well, new, \$90; 1/2 hp motor elec, \$5. Ron, Ext. 2969.

FREE - Crib, needs painting, 1 coil spring (twin size), 1 flat steel spring (twin size), yours for the taking. J. Shanley, 929-6341.

GERMAN SHEPHERD PUPS - 2 blk-tan females, 1 dk sable male, outstanding temperament, sire from Ch. Raps & O.T.Ch. Molly, dam Ch. Bernd daughter. 298-4263 after 5.

NEW COUNTERTOP - Yellow formica, 2 pcs to form "L", cut out for sink & stove. Ext. 2816, GR5-7372.

HOT AIR FURNACE - Blower, ducts; 30 gal elec h.w. heater; Cross-buck door, 3'x6'8"x1 3/4". Ext. 2816, GR5-7372.

DISHWASHER - GE Mobile Maid portable, let the maid do it. \$99. Ext. 7784.

CAMERA - Yashica Mat LM twin lens reflex light meter, carrying case & flash. \$25. Tom, Ext. 2152.

OSCILLOSCOPE - DeVRY 5', AC input w/calibrated vert & horiz sweeps, brand new. \$55 or best offer. Tom, Ext. 2152.

VACUUM TUBE VOLTMETER - DeVTRY portable, transistorized. \$25. Tom, Ext. 2152.

COLLIE - Female, 7 mos, sable/white, AKC, shots, housebroken, loves children, owner moving. \$80. 475-5098 after 6.

SHOTGUNS - Dbl brls; 16 ga Stevens, \$40; 12 ga Zephyr Woodlander, 30" brls. Orig. 139.95, sell \$70. H. Maile, 475-5604.

SPERTI SUN & HEAT LAMP - Remington typewriter; 2 Mediterranean lamps; vacuum cleaner. Marilyn, SE2-2025.

GUIARS - Egmond learner's, good for beginner, orig \$40, sell \$18; Kay Bass guitar, fair cond, \$20. AT6-8544.

STOVE - Tappan 4 burner. Best offer over \$40. Kalbfleisch, 744-5741.

KEYSTONE 8 MM PROJECTOR - 8 mm movie camera w/ telephoto lens; movie screen. All for \$50. Ronnie, Ext. 2341.

BABY CRIB - \$15; 5 drawer chest, \$20. Ext. 2515.

SUITCASE - New, never used, 29" "Wings Flight Weight," top-zippered, navy. Cost \$35, sell \$15. Dahl, AT6-0379.

KITCHEN EXHAUST HOOD & FAN - Approx 30", new. \$15. JU5-8322.

GE "PRESS TYPE" IRON MACHINE - Almost new, for laundry rm. \$50. JU5-8322.

BATHTUB - 5', mod, light weight, white, excel cond. \$15. JU5-8322.

BABY CARRIAGE - Biltrite, blue & white, excel cond. Orig \$125, sell \$35. Ext. 7684.

12' POOL W/FILTER - Orig cost \$84, take it away for \$20. AT6-9262.

12 GAUGE SHOTGUN - Dble barrel percussion, very good, \$70; 12 gauge single barrel percussion shotgun, \$40. F. Rumph, Ext. 7586.

GERMAN SHEPHERD (1/4-1/2 COLLIE?) PUPS - Both male (AKC) & female parents I own, whelped 2/11, 5 males, 6 females. Ext. 2984, 281-5771.

COLLIE - Sable/white AKC, 10 mos old female, from champion stock, good for showing. Ext. 7684, 732-7649.

FIREPLACE LOGS - Seasoned oak, split, 18" long. 12/\$1. YA4-3236.

WEST BEND PWR HUMIDIFIER - \$10; twin bed compl w/frame, headboard, mattress & boxspring, \$15; bonnet type hair dryer, \$3. Neal, Ext. 2543, 473-7667.

ST BERNARD PUPS - AKC reg, 4 males, 2 females, being shown now. \$150 up. Ext. 418, 732-3443.

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

TWIN BED - Matching mattress & box spring, perf. \$45. Ext. 2893.

BABY CARRIAGE - Wooden swing bassinet, nice cond. Both for \$28. B. Shelter, 281-5418 after 6.

Houses

SOUTHAVEN - 3 bedrm split level, play rm, basement, garage, 1/2 acre. \$23,000 (rent \$180/mo). 286-3991.

E. PATCHOGUE - 3 bedrm ranch, full basement, s/s, fenced, att garage, city water, extras, close to everything. \$3200 over 5-3/4% \$10,700 mort. Vinny, Ext. 7676, AT6-9783.

BELLPORT VILLAGE - 2 yr old spacious colonial, near everything, 4 bedrms, 2 1/2 baths, fam rm, din rm, mud rm, dble garage, basement, deck, wooded, 0.8 acre. \$31,800. AT6-8724.

BELLPORT - Maple Ave, 3 bedrm ranch, lg liv rm, eat-in kitchen, full basement, oversized garage, deep beautifully treed lot. Asking \$16,900. Ext. 572.

CENTEREACH - 3 bedrm split level w/basement, appliances incl. \$3500 down, assume \$140 monthly mort. 585-3463.

SHOREHAM - 1 1/2 yr old, 7 rm ranch, 3 bedrms, din rm, fam rm, 2 baths, full basement, 1/2 acre, 6% mort. \$25,000. 744-3764.

VERMONT - Year round vacation house, 2 bedrms, knotty pine liv rm, fireplace, 1/2 acre near Killington ski area & several lakes. L. Emma, Ext. 642.

For Rent

3 BEDRM HOUSE - E. Patchogue, avail 3/15. \$135/mo. AT6-9262.

3 1/2 RM APT - Wading River, unfurn, on cliffs. 929-6132.

FURN RM - Sayville, priv entrance & bath. F. Maye, Ext. 7230, LT9-3243 after 6:30.

3 RM APT - W/bath, newly decorated, Center Moriches area, furn, heat & util incl, single or couple only. \$105/mo. 878-0792, 878-1969.

Wanted

OLD ELEC TRAINS - Any make, any cond, lg or sm, Lionel, Ives, American Flyer, etc, made before 1941. Andy, HR3-3077 days; Ext. 7642 nights.

AREA HEATER - Kerosene, 2 burner, to heat garage, approx 30,000 BTU. Jack, Ext. 443.

METAL FILE CABINET - 4 drawer, w/lock. 298-4089.

SKIN DIVING EQUIPMENT - Tank & regulator. D. Pate, AT6-8835.

SUMP PUMP - Pedestal type in good working cond. Suda, Ext. 542.

TRADE - 4 track stereo tape recorder, plays reels & cartridges, orig cost \$350, for stereo record player, approx value \$100. 289-8246.

TYPING - Term papers, etc., to do at home. Claire, Ext. 2131.

TAXPAYERS - Fed & State income taxes prepared in your home. GR5-8330.

SILVER DOLLARS & HALF DOLLARS - Will pay 25% & 10% respectively; will also buy other US coins of numismatic value. Belfiore, Ext. 7294.

PING PONG TABLE - In good cond. Ext. 2165.

BABYSITTING - Bellport or E. Patchogue, Fri eves, Sat, Sun. J. Pate, AT6-8835.

MINI BIKE FRAME - Used but in good cond. R. Tut-hill, 298-8087 after 6.

RELIABLE WOMAN - To babysit 3 days/wk, 8-5, 1 infant, Patchogue area, own trans. 289-8326.

TO THANK "X" - For being an Honest Abe & mailing me the envelope which I had lost in late Jan. A. Harrison, Ext. 2903.

HOUSE TO RENT - Unfurn, 3 bedrms, Shoreham to Port Jeff, from 7/1/69. 286-1276.

TO RENT - 2-3 bedrm house, furn preferred, June occupancy. Jacobs, Ext. 2560 days, 7709 eves.

BABYSITTING JOBS - E. Patchogue, Bellport, Brookhaven, weekends, week nights (early); experienced, reasonable, reliable. Andrea, 286-9639 after 3:30.

2 VW WHEEL RIMS - Good cond, reasonable price. Rich, Ext. 2735.

BACHELOR APT - Furn or unfurn. Peter, Ext. 2711.

USED TAPE RECORDER - In working or "almost" working cond, inexpensive. D. Koenig, Ext. 2240.

HOUSE TO RENT - 3-4 bedrms, furn, Brookhaven-Bellport area, to occupy in May. Mariscotti, Ext. 7289, 281-3008.

WIND UP METRONOME - In reliable cond. D. Huszagh, Ext. 2236.

TO RENT - 2 bedrm apt or house, 20 mi radius from Lab, occupancy Aug. J. Larrie, Ext. 2204.

Carpools

DRIVER/RIDER WANTED - Sayville-West Sayville area. Smolski, Ext. 301.

CARPOOL RIDE - From S. Huntington-Melville area. M. Steinberg, Ext. 340.

PAYING RIDER - Would like ride to & from Brookhaven. R.L. Fuka, Ext. 2229.

Lost & Found

LOST - Earring, rhinestone, loop, at Valentine's Dance. F. Scesny, Ext. 2106.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following Thursday.

- The Brookhaven Bulletin 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 employee's 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.

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| <input type="checkbox"/> For Sale: Auto & Auto Supplies | <input type="checkbox"/> For Sale: Houses | <input type="checkbox"/> Carpools |
| <input type="checkbox"/> For Sale: Boats & Marine Supplies | <input type="checkbox"/> For Rent | Check <input type="checkbox"/> the heading applying to your ad. |
| <input type="checkbox"/> For Sale: Miscellaneous | <input type="checkbox"/> Wanted | Print or type your ad in 20 words or less. |

(Name & Phone No. To Call)

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

Employee's Signature: _____ Life No. _____ Ext. _____

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue