



Frederick E. Mills Returns to Research

Laboratory Director George Vineyard announced that Frederick E. Mills, after serving for 2½ years as Chairman of the Accelerator Department, has asked to be relieved of these duties in order to devote full time to research activities at the Laboratory.



R.R. Rau

On February 5, R. Ronald Rau became Acting Chairman of the Accelerator Department in addition to his duties as Associate Director for High Energy Physics. He will remain Acting Chairman of the Accelerator Department until a replacement is found.



Fred Mills

With Dr. Mills devoting full time to research, Brookhaven's accelerator physics activities will be materially strengthened. His experience is a unique combination of the experimental and theoretical aspects of accelerator physics. He was among the very first to become interested in the idea of using colliding beams of particles for providing large useful energies in particle collisions. During his association with Midwestern Universities Research Association (MURA) he developed many ideas and techniques for colliding beams, and has

Report Available

The following report is now available to the Laboratory staff and to affiliates of the AEC, AUI, and BNL. Others may purchase it from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22151. Staff members should call Ext. 3484:

BNL 50360 \$3.00
Brookhaven Highlights, July 1970 - June 1972.

IAEA Appointments

Short term assignments for engineers in the field of fuel elements are available in Latin America and Madagascar through the IAEA. There is also an opening for an experimental nuclear physicist for 6 months near Cairo. Further details are posted at the Office of Scientific Personnel, 40 Brookhaven Ave.

made a multitude of original contributions to accelerator physics generally.

Dr. Mills was a visiting scientist at Centre des Etudes Nucleaires de Saclay in 1960-61 where he concentrated on electron-positron storage systems, developing new techniques especially concerning strong focussing magnetic field configurations. These ideas became important elements in the later electron positron storage rings such as the Orsay storage ring ACO. Upon his return to MURA, he supervised the design and construction of the 240 MeV electron storage ring which has been so successful as a source of synchrotron radiation for experiments in solid state physics, atomic physics, and chemistry.

Since joining the scientific staff at BNL, Dr. Mills has been particularly interested in the potentialities for totally new physics results using high energy proton-proton storage rings. With his colleagues in the Accelerator Department, in the Physics Department, and in university laboratories he has strongly supported and actively worked on the design of ISABELLE, a 200 x 200 GeV proton storage accelerator, which would provide totally new opportunities for particle physics research. Dr. Mills' strong interest in this project and in the closely allied accelerator physics problems in the AGS will certainly influence positively and strongly the accelerator research activities at BNL.

According to Dr. Vineyard, "Dr. Mills has overseen the completion of the AGS Conversion. The machine has recently achieved a record intensity of 7×10^{12} protons per pulse. The rate of conducting experiments at the AGS has been increased greatly within the last two years, and the operating efficiency of the machine has reached preconversion levels. We are greatly indebted to Dr. Mills for his services in this crucial period and look forward to his continuing important scientific contributions to the Laboratory's programs."

Renaissance Songs Friday At Berkner

Tonight, February 9, at 8:30 p.m. in Berkner Hall, the musical calendar will be turned back five to eight centuries by Jean Belliard, who will present songs of the royal court of France from the Middle Ages and Renaissance. The atmosphere of the times will be suggested by slide projections of illuminated manuscripts. In addition to singing and playing the guitar, M. Belliard has composed the musical settings for some of the Renaissance poems he uses.

During the past two years, Jean Belliard has presented programs of this type throughout Western Europe, North Africa, and the United States. He is also an authority on classical Arabic music, and was for a number of years a professor at the National Conservatory of Music at Rabat, Morocco; subsequently he was the French cultural attache in Oran, Algeria.

Critics have acclaimed his performances: "Jean Belliard, is without doubt, one of the great voices of French song . . ."

"... Creates enchantment . . ."
"In his music he seems to have rediscovered the secrets of old . . ."

This program will be sponsored by the BNL French Group, and non-members are also cordially invited. For the latter, there will be an admission charge: Adults, \$1.50; students, \$0.75. Tickets will be sold at the door.

Oxford Appointment

The University of Oxford proposes to appoint a Research Officer in the Department of Nuclear Physics for a period of three years from 1 September 1973. The successful applicant will be required (i) to engage in the research of the spark chamber/counter or bubble chamber groups in the Nuclear Physics Laboratory in both term and vacation under the direction of the Professor of Experimental Physics; (ii) to take such part in the teaching of Physics and such other responsibilities as may be required.

Further details posted at the Office of Scientific Personnel, 40 Brookhaven Ave.

On Tuesday, February 6, The White House announced the appointment of Miss Ray as Chairman of the Atomic Energy Commission. The article about Miss Ray's appointment is reprinted from the current issue of *Nucleonic News*.

Dixy Lee Ray Named AEC Chairman

President Nixon will designate Dixy Lee Ray, 58, to be the next chairman of the Atomic Energy Commission. The announcement from the White House was expected momentarily. The decision will be a stunning surprise to the industry and to the staff of the agency and, according to sources, was not taken without dispute within the inner circle of the Administration.

Washington observers felt that Miss Ray's selection can be interpreted primarily as a political action, designed to improve the Administration's image in the light of the women's liberation movement. It is also felt that the White House hopes to soften the hawkish image of the AEC by appointing Miss Ray, a colorful spinster. Miss Ray, a marine biologist from Washington State, was named to the commission last year after an exhaustive search by Administration talent scouts among qualified women. She has maintained a low profile since joining the commission and is chiefly known for her personal eccentricities and charm - she lives in a trailer mounted on a truck chassis parked behind a chicken coop on a rural Maryland farm. She keeps her two dogs with her at nearly all times and they sleep behind her desk at the AEC. It is only on very formal occasions, such as appearance before the Joint Committee on Atomic Energy or visits to the White House, that she leaves her dogs.

Observers hailed the Nixon decision as a potential publicity triumph but were pessimistic about its effects on AEC. Sources hastened to point out that Miss Ray is extremely well regarded in the commission and is personally very popular. However, she has said that she has no interest in the weapons program and she is generally considered around the AEC's Germantown, Md., headquarters not to have much interest in the civilian nuclear power program. Her overriding enthusiasm has been in biology and medicine and in the problems of public acceptance of AEC.

The Administration obviously has had an eye to the potential for "copy" that Miss Ray presents. For several years she conducted a television program in Seattle and is an accomplished public speaker. Because of her lack of association with either industry or the military she is likely to be well received by liberal legislators and by environmentalists. Most likely effect of the appointment is to underscore the importance of the roles played by commissioners William Doub and James Ramey. The designation of Miss Ray as chairman is not subject to Senate confirmation as she has already been confirmed as a member of the commission.

Nuclear Licensing Present & Future At ANS Meeting

Few subjects rival licensing and safety in their torrential impact on the nuclear industry to date.

Columbia Law School Professor Arthur Murphy, whose many years of experience as Chairman of an AEC Safety and Licensing Board and consultant to the Joint Committee on Atomic Energy, renders his perspective on this subject especially valuable at the monthly meeting of the New York Metropolitan Section of the ANS. His topic at the February 13 meeting is "Licensing Nuclear Power Plants - Present and Future."

Reservations should be made at your earliest convenience, should you plan to attend, by calling Deborah Odzer, 212-838-5661. The luncheon meeting will be held at the New York Academy of Sciences, 2 East 63rd Street in Manhattan, commencing promptly at 12:30 p.m., with the bar open from 12 noon. Treasurer Tom Richardson appreciates exact change, \$6.00, and of course personal checks are not acceptable.

FY 1974 Budget Impact Assessed

A memorandum issued yesterday to all employees of Brookhaven National Laboratory stated that an expected reduction in funds for Laboratory programs in the FY 1974 requires a reduction in staff of approximately 225 employees.

As a result of the budget now before Congress, the AEC operating funds for the Laboratory are expected to be approximately \$48,400,000, as contrasted with the FY 1973 budget of \$49,600,000.

The budget reflects reductions in three principal areas; high energy physics, AEC Regulatory assistance, and the Isotopes Development Program. These reductions are somewhat offset by increases in metallurgy and materials research, biomedical and environmental research, and partial AEC support of a project to develop a superconducting electric transmission cable.

The employee terminations are necessitated by the combined effects of the decreased budget and the increased cost of continuing operation. The Laboratory will make every effort to help terminated employees find other jobs. It is anticipated that the affected employees will be notified in March.

In yesterday's notice to employees, Director George Vineyard said, "Some of the AEC programs at the Laboratory are undergoing reductions in funds, and others will have increases. The net effect is an overall reduction in the operating budget of approximately \$1,200,000. In addition, unavoidable increased costs of operation will add to the funding problem.

"All organizational units of the Laboratory are now evaluating the impact of the reduced funds on their individual programs and activities. It is regrettable that a reduction in force will be required. The specific employees affected will be notified as soon as departmental assessments are completed.

"We very much regret that it will be impossible to avoid these reductions in staff. We shall continue efforts to minimize the impact on our people and our programs, and give every assistance possible to those who are affected."

Cotzias On TV Feb. 11

This Sunday, February 11, Dr. George C. Cotzias of BNL's Medical Department will be the guest on NBC-TV's program, Research Project. The program will be shown on channel 4 at 12 noon.

Selected Reading

- Phys. Bull. 24, January 1973
Social responsibility:
Responsibility in research. J.H. Fremlin. 19-21
Consequences of research. K. Pavitt. 22-5
Science and government. A.W. Merrison. 26-7
- New Sci. 57, January 21, 1973
Following in the iceman's footsteps. W. Fallon. 193
- Science 179, January 5, 1973
The saga of American universities: The role of science. M. Rees. 19-23
- Science 179, February 2, 1973
What's wrong with plastic trees? M.H. Krieger. 446-55

Marshall Island Lecture



Dr. Robert Conard, Medical Department, will lecture to the Naval Reserve Research Company on Late Effects of Radiation in Marshall Islanders on Wednesday, February 14. The picture above shows part of the village of Rongelap where most of the survey took place.

The Gypsy Moth Problem

Many Suffolk County residents are currently being contacted by New York State officials proposing to spray their property next spring with Sevin (carbaryl) for gypsy moth control. It is astonishing that the State is still favoring this outdated, futile, and in fact counterproductive technique for combating an insect nuisance.

In the first place, healthy trees will not die even if completely defoliated. In late June they will refoliate and look as healthy as before the attack. Since there is no commercial timber harvesting on Long Island, the slight retardation in growth resulting from a severe defoliation is of no consequence. Possibly five percent of the trees in a forest will die, but these are unhealthy ones that were due to die soon in any event. This is proven by the lower than normal mortality in subsequent years.



Female and male gypsy moths

Gypsy moth infestations generally occur in the same area for two successive years. If the area is not sprayed they then disappear from that spot. This is mainly due to the many natural predators of the moth, which have been able to build up sufficient population to destroy it. There are over two dozen insect species that parasitize the gypsy moth in its various life phases. These insects, however, are vulnerable to a broad-spectrum pesticide like Sevin. In addition to insect enemies, many bird and small mammal species prey upon the moth. Also, natural diseases such as the polyhedral virus break out in dense moth populations. Since it is State policy to spray only in areas where there are more than 500 egg masses per acre, the only moth populations to be sprayed are those most vulnerable to collapse from natural causes, such as starva-

tion, disease, and parasites. The more viable populations, where the density is less, are thus allowed to take over.

My own experience with a heavy infestation is worth recounting. In 1970, Bostwick Forest on Gardiners Island, an area of several hundred acres of oaks and other hardwoods, was completely defoliated by gypsy moth caterpillars, although trees produced new leaves later in the summer after the caterpillars had pupated. In 1971 the same thing occurred, with an even heavier outbreak. But I noticed that many caterpillars had withered from starvation and disease. Also, in early 1973 I found that every surviving egg mass was punctured with tiny holes. This was the work of a small wasp (*Ooencyrtus kuwanai*), that lays its eggs in the moth egg masses. Since the Gardiner family had been persuaded not to spray with Sevin, there was no sign of a gypsy moth caterpillar in the forest this past year, and the few trees that had died were all those in heavy competition with others.

For those wishing to protect valued trees around the home, a bacterium known as *Bacillus Thuringiensis* is now available under the trade names Thuricide and Biotrol. It is registered for application from the ground and can be applied by tank spray, hose attachment, or by a local tree service. Although it is not known to harm other forms of life, it is specific to caterpillars of all moths and butterflies. Nevertheless, it is preferable to Sevin, which is toxic to many useful non-target organisms, including the microscopic fauna in the forest soil. Sevin also causes birth deformities in test animals. The report of the Presidential Commission on Pesticides recommended in 1969 that carbaryl be restricted in its use around people. This recommendation has been largely ignored.

Since the adult female gypsy moth is flightless, a band of the sticky substance known as tanglefoot around the trunk will prevent the moth from climbing a tree to lay its eggs. Also, this will prevent caterpillars that have hatched elsewhere from ascending.

Another protective measure for an individual tree is an 18-inch wide strip of burlap around the trunk, secured in the middle with a string and with the top folded down. Since the caterpillars tend to descend the tree and seek shelter during the day, they will crawl under the fold. They can be de-

Recreation Facilities Schedules

Swimming Pool (Spring season starts Feb. 10)
Weekdays - Monday through Friday
12:00 noon - 1:30 p.m. Employees Only
5:00 p.m. - 9:30 p.m. Employees/Families/Visitors

Saturdays & Sundays
1:00 p.m. - 6:00 p.m. Employees/Families/Visitors

SEASON TICKETS:
Employee \$ 5.00
Family 10.00

DAILY ADMISSION RATES:
Employee or Family Member .50
Visitor .75

(Visitor must accompany the employee who is permitted to bring a maximum of 5 visitors per family each visit.)

Gymnasium
Monday
5:00 p.m. - 8:30 p.m. Volleyball League (Mixed)
7:00 p.m. - 9:30 p.m. General Activities
Tuesday
5:00 p.m. - 7:00 p.m. Judo Club
5:00 p.m. - 9:30 p.m. General Activities
Wednesday
5:00 p.m. - 8:30 p.m. Volleyball League (men)
8:30 p.m. - 9:30 p.m. General Activities
Thursday
5:00 p.m. - 9:30 p.m. Basketball League
Friday
5:00 p.m. - 7:30 p.m. Soccer League
7:30 p.m. - 9:30 p.m. Tennis (by posted self-service reservation)

Saturday
9:00 a.m. - 12:00 noon Tennis (sign up at Police Hdqtrs)

Sunday
12:00 noon - 9:00 p.m. General Activities (key at Police Hdqtrs)

Arrivals & Departures

Arrivals

William R. Casey H.P.S.
Ellen A. Cherniavsky Applied Science
Thomas F. Koetzle Chemistry
Charles H. Nauman Biology
Glenn R. Snape Physics
Helen F. Wang Medical

Departures

Kenneth W. Doughty Accelerator
John V. Mercurio Physics

stroyed on a daily basis by crushing, or by shaking them off into a bucket of kerosene.

The U.S. Department of Agriculture began its battles with the gypsy moth over 65 years ago, since then it has expended \$100 million in spraying vast areas with DDT, and more recently with carbaryl. The fact that the moth has steadily expanded its range and its depredations in spite of these tactics appears to have been ignored, except by more intelligent officials in states like Connecticut, where aerial spraying has been abandoned. Resources in money and manpower should be diverted into more intelligent and ecologically sound techniques, and to research into such tactics as the use of sex attractants and specific pathogens.

There is great hope that more sophisticated techniques will cause the gypsy moth to diminish into the relatively harmless insect that it is in Europe, from where it was introduced into Massachusetts over 100 years ago.

—Dennis Puleston

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NORBERT J. DERNBACH
Public Relations Officer

Cafeteria Menu

Week Ending February 15, 1973

Friday, February 9
Manhattan Clam Chowder
Fried Shrimps w/Tartar Sauce & French Fries .99
Roast Leg of Lamb w/Mint Jelly & 1 Veg. .95
Poached Cod w/Lemon Butter & 1 Veg. .95
Monday, February 12
Cream of Mushroom Soup
Roast Fresh Ham & 1 Veg. .95
Chicken Croquettes w/Giblet Gravy & 1 Veg. .95
Western Omelet w/French Fries .85
Tuesday, February 13
Mulligatawny Soup
Grilled Ham, Sausage & Pineapple & 1 Veg. .95
Creamed Chicken & Mushrooms on Noodles .90
Sauerbraten w/Potato Pancakes .95
Wednesday, February 14
Yankee Bean Soup
Baked Beef Loaf w/Gravy & 1 Veg. .90
Shrimp Chow Mein on Crisp Noodles & Rice .90
Polish Kielbasy w/Mashed Potatoes & Sauerkraut .90
Thursday, February 15
Beef Barley Broth
Beef Hash w/Brown Gravy & 1 Veg. .90
Stuffed Cabbage & 1 Veg. .90
Broiled Chicken Livers w/Bacon & 1 Veg. .90

World of BNL

The coming week's schedule for the Laboratory's own radio program, the World of BNL, with host Norb Dernbach, is as follows:

Sunday, February 11
Charles Meinhold and Andrew Hull
Health Physics & Environmental Monitoring
at 8:00 a.m.
WBLL-FM (106.1), Patchogue
WRCM-FM (103.9), Riverhead
WHRF-AM (1570), Riverhead
WLIR-FM (102.9), Hempstead
at 11:00 p.m.
WGLI-AM (1290), Babylon
Tuesday, February 13
Environmental Research at Flax Pond (Pt. I)
at 10:00 a.m.
WSHR-FM (91.9), Lake Ronkonkoma

Stompers Return

The Isotope Stompers, the dixieland jazz group formed from staff members of Brookhaven, and friends of Brookhaven will return to the Brookhaven Center on Monday evenings starting on February 12.

Located in the North Room of the Center, the Stompers will be only a short walk from the bar. Drinks are served starting at 5 p.m. and the music will be heard from 5:30 to 8:30.

IPMA Meet At BNL

On February 6, 1973 the officers and members of the Long Island Chapter of the "In-Plant Printing Management Association" met at Berkner Hall.

Following dinner, the managers toured the Laboratory printing facility. Special interest was shown in the techniques used to prepare the *Brookhaven Bulletin* for publication and the "new" Continuous Total Copy System installed at the Quick Copy Service Center. The Total Copy System can automatically process, print and collate at speeds of 10,000 sheets per hour.

Attending were: Ken Boehm, BNL; George Collins, Grumman Aero Space Corp.; Angelo Sacco, Saks Fifth Avenue; Fritz Seyforth, Fairchild Republic; Robert Villano, Eutetic Corp.



Ken Boehm, Graphic Arts Supervisor, explains method used to print the *Brookhaven Bulletin* to touring members of the Long Island Chapter of the In-Plant Printing Management Association.



Special interest was shown in the "new" completely automated Continuous Total Copy System as seen in full operation during the night shift. —Photos by Humphrey

BERA Election Candidates Selected

The following is a slate of candidates selected by the 1973 BERA Nominating Committee:

- Jack Crow**, Associate Physicist, Physics Department.
- Josephine Gazzola**, Office Services Assistant, Fiscal Division
- Kay Hunt**, Secretary, Personnel Division.
- James Petro**, Technical Specialist, Reactor Division.
- Thomas Prach**, Chemistry Associate, Department of Applied Science.
- Michael Zguris**, Technician, Accelerator Department.

The BERA trustees whose terms expire on March 1, are Paul Kelly, Lynn Kalbach and Leslie Lawrence.

Election ballots will be mailed to all employees on Thursday, February 15.

BERA Board Candidates



Kay Hunt

Tom Prach



Jo Gazzola

Mike Zguris



Jim Petro

Jack Crow

Bowling News

Grace Fales

Green League

The Sandbaggers took a giant step forward into first place by defeating the Five Welders 7-0. 200's for the night were rolled by E. Sperry 204, E. Meier 232, R. Meier 221, R. Jones 212, N. Combatti 211, R. Barberich 219 and J. Cain 215.

Pink League

The Medi-Tarsals are out in front by 2 points and are going strong. The Pinsplitters are "hanging in there" and the Fiscal Assets moved from 6th to 3rd, nudging the spares to 4th. The Alley Oops moved from 7th to 5th. The Hopefuls and Bioboosers are neck and neck for the time being. There is an eighth team in our league, isn't there Sue?!? Marie Brenner 169/476 and Helen Caisey 170/480 did well for the Fiscal Assets. Frances Scesny (Alley Oops) 171 and Grace Kyhl (Medi-Tarsals) 175 let loose with their potential. The Pinsplitters' Wilma Quinn, 189, is in "print" for the second time in a row, and Pat Oster showed us all how it should be done - 190/496.

Red League

Old Timers: D. Adams 209, W. Reams 200, R. Nelson 201. Lucky Strikes: C. Buzzeo 203. Pacs: B. Brehm 221.

Black & Blue League

Going into position night the League is still very tight (in more than one way) with four points separating the first five positions. Handsome Budd Pollack and his lovely wife, Dot, returned from Florida (no tan) in time to help propel the Athole's into first. Budd suggested that we add another category to our individual awards: Most handsome. Who did you recommend as the recipient of this award, Budd? Budd also converted the 3-5-7 split. Highs for the night Arnie Kreisberg 213/555, Josephine Candiano 197/425 and high gross of 261.

Mountain Club Expedition



Above are shown members of BNL's Mountain Club as they are about to descend into Leigh Cave near Lebanon, New Jersey. The group spent 3½ hours exploring the cave's muddy passages. The trip included Carolyn Carlson, Douglas Carlson, Frank Fridrich and daughter Margaret, Nina Patton, Lee Rogers, George Taylor and Kathy Taylor, and was led by National Speleological Society members Sue Field, Dave Goldman, Ken Goldman, Ken Goddard, and Mike Ruso.

Scotch Doubles Tourney

Save the night of April 14th. Mr. Ed Arnold, of Port Jeff Bowl, has agreed to this night for our special BNL Scotch Doubles Tourney.

In case you've forgotten, Scotch Doubles consists of a team made up of one female and one male member. The game is played with each teammate bowling alternate balls. Rules will be finalized and published at a later date in the Brookhaven Bulletin. Eligibility will be extended to all BNL employees and their spouses, or in the case of single employees, to their guests. This will be a handicap tourney so everyone has a chance.

There will be a buffet after bowling and Mr. Arnold has arranged to have London Lee, a noted comedian, for your entertainment.

Entries will be limited to the first 64 teams, so plan ahead. Don't forget the date, April 14th. The tournament chairman for this event is James Petro, extension 4040/4421.

A Slight Ache

Manny Hillman will present a dramatic reading of Harold Pinter's one act play, "A Slight Ache," at the Theater Group's meeting on February 12, in Berkner Hall. Jeanne Simone and Bob Kinsey will portray the other characters in the play. All three interact not so much by transmitting their emotions and attitudes to each other, but by using each other as quasi-mechanical devices to amplify and define their own motives and goals. The play will begin at 8:00 p.m., not 8:30 p.m. as previously reported. A business meeting will follow.

A Slight Ache



Manny Hillman (the husband) seems oblivious to the fact that Jeanne Simone (his wife) and Bob Kinsey (the match seller) have a thing going for each other. The one act play "A Slight Ache" will be presented on Monday in Berkner Hall.

Soccer

Ken Batchelor

At the half-way mark in the Winter Indoor Soccer Competition the young and strong Make-Ups team has a commanding lead over the other three teams. On Friday, 12th January the Ups were again victorious in their first game overwhelming AGS by a score of 5 to 0. However, in their second game they were narrowly beaten by Physics by a score of 2 goals to 1 to suffer their first defeat in the competition. The combined Medical, Chemistry and DAS team also beat AGS by a score of 4 goals to 0 but the play in this game was much more even than the score would suggest. In the fourth game Physics and Medical, Chemistry and DAS played a scoreless tie.

League Table

	Goals						
	P	W	D	L	For	Against	Points
Make-Ups	12	11	0	1	37	8	22
Med. Chem. DAS	12	6	1	5	22	14	13
Physics	12	3	1	8	20	27	7
AGS	12	3	0	9	15	45	6

Leading goal scorers: Schoen 24; Farrell 18; Batchelor 9; Meyers 8; E. Bennett 7; Anderson 6; Emery 5.

The Last Day Is Not A Mystery

The final opportunity for employees and their families to audition for Agatha Christie's "The Spider's Web" is February 8, at 8:00 p.m. in the Recreation Building. Scripts may be obtained from Pat Towey, extension 3727. Anyone wishing to become part of the production crew should also contact Pat.

BNL Rifle & Pistol Club

The monthly meeting of the BNL Rifle & Pistol Club will be held in the Apartment Area Recreation Building on Wednesday, February 14th, at 5:10 p.m.

A movie entitled "Bullet Casting & Accuracy" will be shown.

Stony Brook Events

A full schedule of lectures and films highlight a week of activities at the State University of New York at Stony Brook. Unless otherwise noted, all events are open to the public without charge.

Friday, February 9

"The Last Sweet Days of Isaac," a contemporary musical will be presented tonight, Saturday, and Sunday at 8:30 p.m. in the Glass Room Theatre in the Stage 12 dormitory complex. Co-produced by the Theatre Arts Department and the Punch and Judy Follies, the student production will be accompanied by a live band.

Students of the Theatre Arts Department will present "The Owl and the Pussycat," a three-act comedy at 8 p.m. tonight, Saturday, and Sunday in the University's Calderone Theatre in Building B on the South Campus. The play focuses on the humorous relationship between a bookstore clerk and a displaced prostitute.

COCA will show the film "McCabe and Mrs. Miller" tonight, Saturday, and Sunday, at 7 p.m., 9:30 p.m., and midnight in Room 100 of the Lecture Center. A limited number of tickets will be available at the door for \$1.

Harpsichordist Peter Wolf will present a recital of works by Froberger, Couperin, Rameau, Bach and Scarlatti tonight at 8:30 p.m. in Room 105 of the Lecture Center; admission is \$1.50. Mr. Wolf, who joined Stony Brook's faculty this year as a musicologist, previously studied the harpsichord under Ralph Kirkpatrick of Yale and the Dutch Artist Gustav Leonhardt.

Sunday, February 11

COCA will show Charlie Chaplain's film "Gold Rush" at 8 p.m. in Room 100 of the Lecture Center; admission is 50 cents.

Tuesday, February 13

Tuesday Flicks will show two Charlie Chaplain films at 8 p.m. in the Stony Brook Union Theatre. Chaplain plays a city slicker out to woo and fleece a rich country girl in "Tillie's Punctured Romance," and a lone prospector in search of Alaskan gold in "The Gold Rush."

Thursday, February 15

The Center for Continuing Education will show the film "Tunes of Glory" at 8:30 p.m. in Room 100 of the Lecture Center. Starring Alec Guinness, John Mills, and Susannah York, the drama revolves around the conflict between two officers in a peacetime Scottish regiment.

ENACT, a student environmental action group, is sponsoring a forum on Zero Population Growth from 8 p.m. to 10 p.m. in the Stony Brook Union Auditorium.

BNL Mountain Club

The February meeting of the BNL Mountain Club will take place at the Recreation Building on Thursday, February 8, at 7:30 p.m. Featured will be a color sound film on cross-country skiing. This will be followed by a display of equipment and a discussion of the February trip of the month. Refreshments will be served.

BERA Ticket Services

Tickets for the following February dates are available and may be purchased at the Recreation Office (9:00 a.m. - 1:00 p.m.).

Metropolitan Opera

Tuesday, the 13th Macbeth
Tuesday, the 20th Salome

Islanders

Tuesday, the 20th Pittsburgh
Tuesday, the 27th Chicago

Nets

Sunday, the 11th Memphis
Monday, the 19th Dallas
Friday, the 23rd Carolina
Sunday, the 25th Indiana
Wednesday, the 28th Memphis

Save Fuel!

To help conserve dwindling supplies of heating fuels at national and local levels, the cooperation of all BNL employees is requested to insure that area thermostats are *not* set above 68-70°F. Also, to avoid wasting energy, do not use window type air conditioning units during heating operations.

Remember the BTU's you save may be needed to heat *your* home!

