



## Richards Winner Of ANS Radiation Industry Award

Powell (Jim) Richards of the Department of Applied Science was named the winner of the 1972 ANS Radiation Industry Award on Tuesday, November 14, at the American Nuclear Society (ANS) Annual Meeting in Washington. The presentation of the award certificate and a \$1,000 check was made by James R. Lilienthal, President of the ANS.

In the citation Mr. Richards is honored "for his singular and intensive role in the development of . . . technetium-99m and for his personal effort in promoting the widespread application of this radionuclide."

Technetium-99m, because of its optimum nuclear characteristics, is the most widely used radionuclide in diagnostic nuclear medicine today and in the form of various labeled radiopharmaceuticals is administered to thousands of patients daily throughout the world. The widespread availability of technetium-99m resulted from the development of the technetium-99m generator in 1957 by the Hot Laboratory Division at Brookhaven headed by Louis G. Stang, Jr. in a group under the leadership of Walter D. Tucker. This relatively simple device made it possible for users to separate 6-hour technetium-99m from a longer-lived parent activity as desired in the users' laboratory.



During the early '60's Mr. Richards was instrumental in the introduction of technetium-99m to nuclear medicine, initially through a collaborative program with Dr. Paul V. Harper of the Argonne Cancer Research Hospital in Chicago, and subsequently in an interdisciplinary collaboration with Dr. Harold L. Atkins of the Brookhaven Medical Research Center. These efforts resulted in the development of many of the technetium-99m-labeled radiopharmaceuticals that are in widespread use today.

Mr. Richards is Associate Head of the Hot Laboratory Division of the Department of Applied Science at Brookhaven. He is the author or coauthor of over 90 papers dealing with radionuclide production technology, radiopharmaceutical development, and the application of radionuclides to medicine. He is a member of the Board of Trustees of the Society of Nuclear Medicine, a member of the American Nuclear Society, and a consultant in radiopharmaceuticals to the Nuclear Medicine Department of the National Institutes of Health. Mr. Richards has also served as an advisor to the Turkish, Greek, and Puerto Rican Nuclear Research Centers in the establishment of medical radioisotope programs.

Mr. Richards, his wife Shirley, and their youngest son Fred, live in Bayport, New York.

## Camera Club Notice

Because of the Pegram Lecture, the December meeting of the Camera Club will be held on Tuesday, December 12, instead of Tuesday, December 5. As usual, the meeting will be at 8:00 p.m. in the Recreation Building.

## Chinese Scientist Visit BNL



Dr. Shih-Chang Pei, Leader of the Chinese scientific delegation, and Dr. Maurice Goldhaber, Director of Brookhaven Laboratory touch glasses after a toast to the visitors last Saturday.



George Baker, Jr. was host to a group that toured the computer facility.



Dr. L. Yuan and Madame Wu chat with a member of the Chinese Delegation.



Dr. Goldhaber and Dr. Pei talk with newspaperman as they leave Berkner Hall for a tour of the Lab.

## Chinese Scientists Visit Brookhaven And Talk With Staff

When Chang Wen-yu first visited Brookhaven National Laboratory the reactor complex was in its early excavation stages, and Suffolk County was mostly a pine barren with only a few roads cutting through it.

Last Saturday, Chang came for another look at Brookhaven, and found the laboratory even larger and more complex than was the dream of the planners back in 1948.

Chang, and six other members of the Chinese Scientific Delegation to the United States arrived at Brookhaven early on Saturday morning and spent the day touring the lab and conferring with BNL scientists about common research interests.

After a welcome and introduction by Dr. Maurice Goldhaber, the seven scientists and their entourage were taken on a tour of the Alternating Gradient Synchrotron and the High Flux Beam Reactor.

After the tour the visitors were joined for lunch by members of the Brookhaven staff who acted as guides for afternoon visits to research areas of particular interest to the individual scientists.

At 4:30 p.m. the representatives of the People's Republic of China boarded their bus and returned to the Holiday Inn on Nesconset Highway in South Setauket.

As the visitors boarded their bus most were wearing plastic buttons with the legend "I Have Visited Brookhaven Lab."

While welcoming the guests, Dr. Goldhaber mentioned that he was particularly pleased to greet Dr. Chang Wen-yu, with whom he had worked at the Cavendish Laboratory, Cambridge, England, during the date 1930's.

Another old friend (and former pupil as well) was Nobel Laureate Dr. C.N. Yang of Stony Brook, who served as coordinator of the delegation's visit to the State University and BNL.

Chang said, "I feel very happy to have been able to see Brookhaven Laboratory again. It is world famous now."

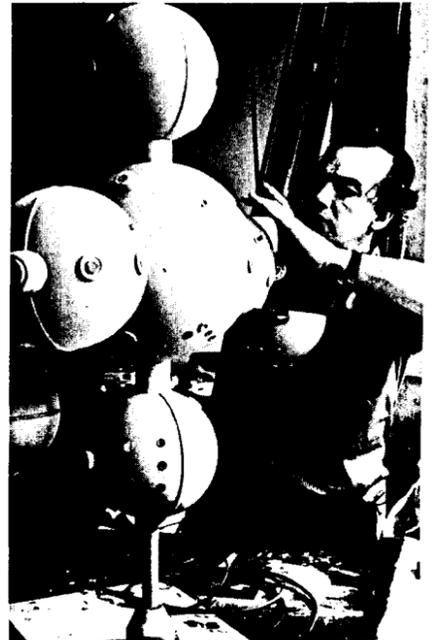
At the luncheon toasts were exchanged by Dr. Goldhaber and Dr. Pei Shih-chang, leader of the Chinese delegation, to "... continuing contacts between scientists of our two nations."

The seven scientists were accompanied by a secretary and two interpreters as well as officials of the State Department and the National Academy of Sciences, who sponsored the tour.

## First Low Lecture At Berkner Tonite - Second Is Sunday

The first lecture in a series of three to be presented by Colin Low, Thirteenth Pegram Lecturer, will be presented tonight at 8:30 p.m. in Berkner Hall.

The Series, which is titled "The Film: An Instrument For Social Change," will start with a lecture on the responsibilities of documentary films. Mr. Low will include in his presentation the showing of several films made for the National Film Board of Canada.



The second lecture, on Sunday, December 3, is titled "Three Communities." The last lecture, on Tuesday, December 5 will be titled "The Question of Media in the Future." As with the first lecture, some films will be shown in whole or in part each evening.

As in the past Pegram lectures, Mr. Low will be the honored guest at a general informal reception in the lobby of Berkner Hall at the conclusion of each lecture.

The Sunday lecture, an innovation for the Pegram series, will be preceded by a buffet supper and a cash bar in the cafeteria dining room. The menu for the buffet will include fruit cup, sliced London broil, fried chicken, assorted cold cut and cheese platters, and assorted salads. Cakes and pies washed down with coffee or tea will be offered for dessert. The buffet will cost \$4.00 per person, and reservations can be made by a call to Ext. 3539, or by purchasing a ticket at tonight's lecture.

The Pegram Lectures are open to the public as well as Lab employees and families. There are no tickets required for admission to any of the three lectures which will be given in Berkner Hall starting at 8:30 p.m. on Thursday, November 30; Sunday, December 3; and Tuesday, December 5.

## Have You - Taken The Pledge?

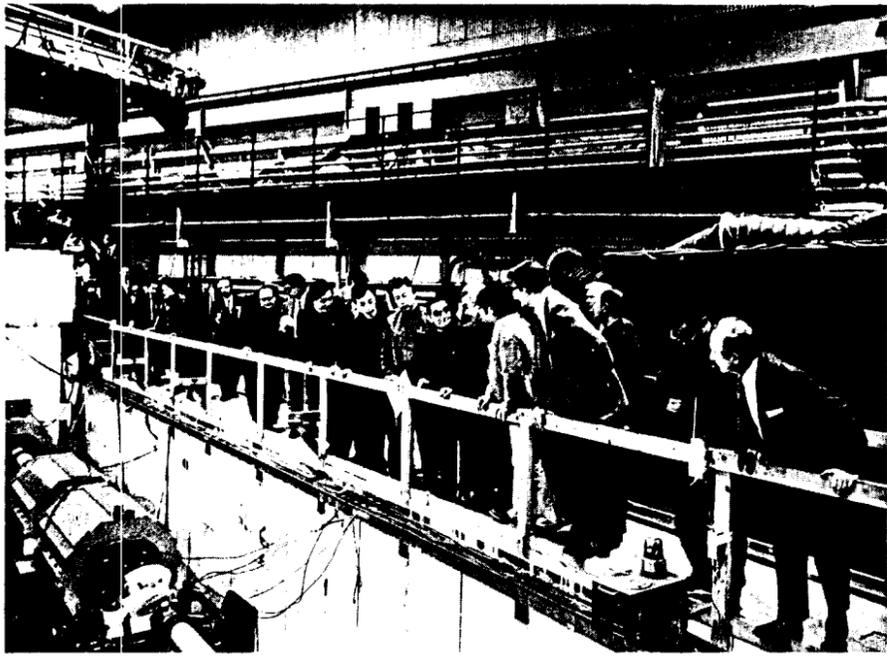
Drinkers and non-drinkers alike are reminded that they can "take the pledge" for the United Fund of Long Island by the payroll deduction route.

If the pledge card which was distributed a few weeks ago has been misplaced, a call to Olga Vario or Alf Christoffersen will start a replacement on its way to you.

If you live and work on Long Island, you are affected by the work of the United Fund's member agencies and hospitals. One out of every four residents is touched by their services: people who were treated after an accident or gave birth in a non-profit hospital, or underwent surgery, or received heart, kidney or cancer treatments.

Not just the poor, or the rich. Everyone. 600,000 Long Island people lived better lives last year because of United Fund agencies and hospitals.

Take the pledge! Put United Fund on your Christmas list. You might be the next one to benefit from United Fund's financial support to member agencies.



At the experimental floor of the AGS visitors and staff line up to view a beam line and its electronic equipment.

**Chinese Visit BNL**



Dave Gurinsky exhibited research in superconductivity.



Harvey Wegner conducted a tour of the Tandem Van de Graaff facility.

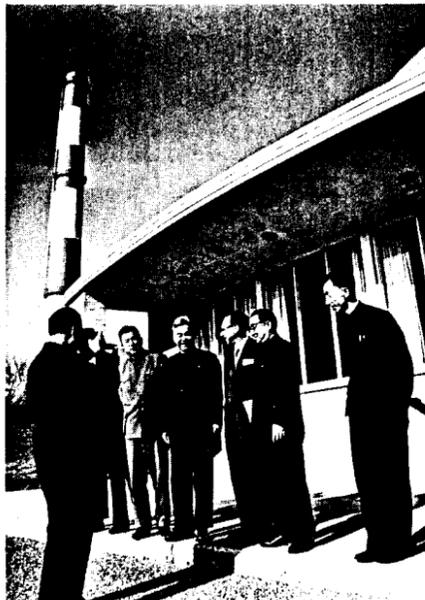


Dr. Darrell Liu and Dr. H. Siegelman of Biology explain cell fusion.

—Photos by Humphrey



Dr. Weneser explains physics research to the visitors.



Representative of the Chinese News Agency takes a picture of the group with Dr. Goldhaber outside the HFBR.



Dr. C.N. Yang (foreground) and Dr. K.W. Lai (checked jacket) talk physics with guests.



Robert Powell explains a model of the High Flux Beam Reactor.



Dr. Wen-yu Chang (center) with Dr. and Mrs. Goldhaber and Michael Goldhaber.

**Service Awards — November**

**25 YEAR**

- Bunt, John ..... Plant Engineering
- Lutz, Charles ..... Plant Engineering
- Newson, Odell ..... Plant Engineering
- Roman, Paul ..... Chemistry
- Smith, Robert F. .... Photog. & Graphic Arts

**20 YEAR**

- Fales, Grace ..... Supply & Materiel

**10 YEAR**

- Barker, William Jr. .... Plant Engineering
- Belligan, Bernard ..... Plant Engineering
- Bihn, Edward ..... Physics
- Browell, Stanford ..... Accelerator
- Cain, John ..... Accelerator
- Dearing, Rosemarie ..... Biology
- Fajer, Jack ..... Applied Science
- Hildebrand, Herbert ..... Accelerator
- Kulesa, Frank T. .... Instrumentation
- Malcolm, Edward ..... Plant Engineering
- Meany, Donald ..... Accelerator
- Mohn, Paul ..... Plant Engineering
- Morgan, Gerry ..... Accelerator
- Murgatroyd, Eleanor ..... Director's Office
- Olson, Howard ..... Accelerator
- Parsich, Raymond ..... Applied Science
- Sampson, William ..... Accelerator
- Schneider, William ..... Accelerator
- Schwamer, Jane ..... Physics
- Spitz, Richard ..... Accelerator
- Thompson, Richard ..... Supply & Materiel

**Suffolk Symphony In First Concert**

The first concert of the Suffolk Symphonic Society will be presented on Saturday, December 9, at 8:30 p.m. in the Hauptague High School (Route 111 at Lincoln Boulevard). Soloist Andre Watts will play the Tchaikovsky Concerto #1 in B<sup>b</sup> minor. Mozart's Overture to the Magic Flute and Bartok's Concerto for Orchestra comprise the rest of the program.

There are subscription series tickets still available (and tickets at the door on the night of the concert, unless already sold out). Mrs. Jack Stehn (HR3-1168) is the ticket chairman.

**Reports Available**

The following reports are now available to the Laboratory staff and to affiliates of the AEC, AUI, and BNL. Others may purchase them 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 50342 ..... \$3.00
- Brookhaven Lecture Series No. 83 What Is An Elementary Particle? R.F. Peierls
- BNL 50345 ..... \$3.00
- Brookhaven Lecture Series No. 109. Calcium Homeostasis: The Hard Facts About Soft Bones. S.H. Cohn

**EMERGENCY PHONE NUMBERS**

- Medical ..... 2222
- Fire ..... 3333
- Police ..... 4444

**Cafeteria Menu**

**Week Ending December 7, 1972**

- Friday, December 1
  - Manhattan Clam Chowder
  - Roast Beef w/Brown Gravy & 1 Veg. .90
  - Fisn 'n' Chips w/Tartar Sauce .85
  - Poached Haddock w/Creole Sauce & 1 Veg. .95
- Monday, December 4
  - Chicken Rice Soup
  - Breaded Pork Chops & 1 Veg. .90
  - Jumbo Knackwurst & Sauerkraut w/Mashed Potato .85
  - Macaroni & Chopped Beef, Spanish Style & 1 Veg. .85
- Tuesday, December 5
  - Puree of Split Pea Soup
  - Beefsteak Pie w/Vegetables & Biscuit Crust .99
  - Southern Fried Chicken & 1 Veg. .85
  - Stuffed Cabbage & 1 Veg. .85
- Wednesday, December 6
  - Cream of Mushroom Soup
  - Beef Hash w/Chili Sauce .80
  - Spaghetti & Meatballs w/Tossed Salad .90
  - Seafood au Gratin Casserole .95
- Thursday, December 7
  - Navy Bean Soup
  - Beef Chop Suey .90
  - Sliced London Broil & 1 Veg. .99
  - Cheese Omelet w/Bacon Strips & French Fries .80

**Arrivals & Departures**

- None
- Arrivals
- Departures
- Thomas R. Brown ..... Physics
- Willie Shepherd ..... Medical

**BROOKHAVEN BULLETIN**

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- Telephone 516 345-2345
- NORBERT J. DERNBACH, Public Relations Officer

**Friendly Gesture**



When Hans Abendroth came to work at the Tandem Van de Graaff last Saturday, he knew that some visitors were expected, but was too busy to inquire who they were. After completing some adjustments in one of the accelerator tanks he tripped while climbing out of the small access port. He was prevented from falling by a gentleman who reached out and steadied him while he regained his balance. It was Tuesday before he found out that the good samaritan was Dr. Chang Wen-yu, member of the Scientific Delegation from the People's Republic of China.

**World of BNL**

The radio program, World of BNL, is broadcast every Sunday over two AM and two FM stations, as follows: at 8:15 a.m. over WBLI-FM (106.1), Patchogue; WRCM-FM (103.9), Riverhead; WHRF-AM (1570), Riverhead; and at 11:15 p.m. over WGLI-AM (1290), Babylon.

This Sunday's guest will be Dr. Gen Shirané and Chalmers Frazer, who will discuss Research Reactors and Solid State Physics (Part I) with host Norb Dernbach.

**Fa La La La ...**

Christmas Carols need rehearsal too in order to sound good! Vocal chords will be limbered and exercised for the coming Yuletide season starting Monday, December 4.

The first meeting of the BERA Unorganized Carol Singers will be held at the stroke of noon in Berkner Hall next Monday. As usual, new faces and voices are welcomed. For further information call Alf Christoffersen on Ext. 3322 or just come along and join the other singers.

## "Creation" A One Act Play At Berkner Hall

All BNL employees, their families, and friends are cordially invited to attend an informal presentation of a recent play by Claire Nicholas White, a Long Island poet and author. The play entitled "Creation" was publicly premiered this fall by Theater Three, in "rehearsal format" at the Smithtown Council Arts Alive tour and at the Suffolk Community Center. It will be performed in Berkner Hall by members of Theater Three, following a brief meeting of the BERA Theater Group at 8:00 p.m. Monday, December 11.

Genesis is the predominant theme of this one-act play; this theme is elaborated on as a commentary on creativity, the creative act, and the complications it engenders. Topics such as feminine liberation and social revolution were found to be unavoidable, although the play is definitely intended as light comedy. The casting of contemporary issues in a biblical setting provides a humorous sense of perspective.

The author has had numerous poems, stories, and essays published in Harpers, Atlantic, Life, and other periodicals, and is presently writing for Art News and for Newsday's L.I. Magazine. In addition, she has written three librettos for the composer Vittorio Rieti, and a novel, "The Death of the Orange Trees." Born in Holland in 1925, she now resides in St. James, and plans to attend the performance.

"Creation" will be directed by June Lewin, and performed by Natalie White as Eve, Lewis Bloch as Adam, Margot Youree as the Snake and Scott Andrus as God. All are members of Theater Three, but most have been seen before on the BNL stage. Following the program there will be an informal discussion with the author, director, and cast. Refreshments will be served.

## Bowling News

Grace Fales

### Black 'n' Blue League

As the first third of our season comes to an end, our standings are as follows:

- 1st Place - Caisey Cats
- 2nd Place - Atholes
- 3rd Place - Maybe's

Lew Jacobson came back to bowling with his best bowling ball forward. He bowled a 234/609, Lou Caisey 234/608, Ralph Taylor 212/521. Bill Lebitski converted the 1-2-4-10 split much to the excitement of all those present. Congratulations to all.

### Pink League

The Fiscal Assets have taken first place by total wood from the Pinsplitters, and the Hopefuls remain in a challenging position to either team. The Alley Oops moved into fourth over the PIU's. The remaining teams are "holding their own." Notable games were: Beverly Nine 175, Kay Trautwein 178, Helen Caisey 185/497, Jean Hamilton 197/496, Grace Fales 208/508 (high series 11/21), and between screams, Kay Hunt bowled 210 (high game 11/21 and the year, so far) with a 473 series.

## Nassau Coliseum Tickets

### Islander Hockey Tickets

- Dec. 5 Los Angeles
- 16 Philadelphia
- 21 Vancouver
- 23 Minnesota
- Jan. 2 Atlanta
- 9 Los Angeles
- 16 Minnesota
- 23 California

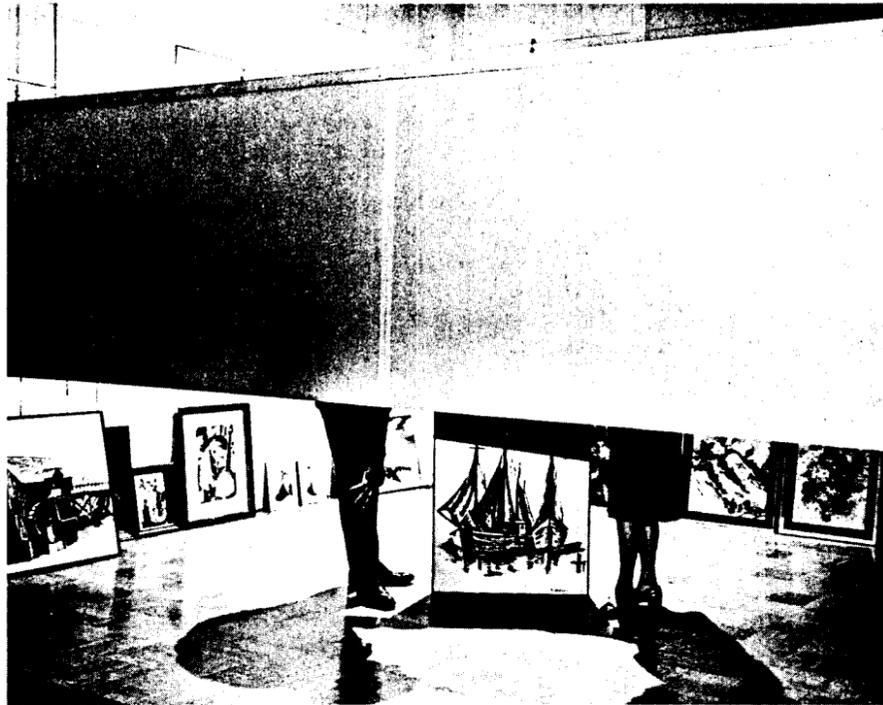
### Net Basketball Tickets

- Dec. 1 Carolina
- 3 Indiana
- 8 Virginia
- 10 Memphis
- 15 Kentucky
- 17 Virginia
- 22 Utah
- Jan. 3 Carolina
- 5 San Diego

Please Note: Tickets not sold two weeks prior to a game may be purchased by those employees who already have two sets of tickets in their possession.

Employees who attend one game may purchase an additional set of tickets. (You may have two sets of tickets in your possession at all times.)

## Art Exhibit Now Open



Art Committee members hang art work on Monday night in preparation for Tuesday's opening.

## Art Show Open Till December 8

On Tuesday evening at 8 p.m. the Exhibit Hall was host to a gathering of artists and art lovers who celebrated the opening of the Fifth BERA Employees Art Exhibit.

On display were a variety of employee works ranging from ceramics and sculpture to needle work and oil paintings. Weaving, stitching batik and macrame shared the display space with silk screens and watercolor. Approximately 100 exhibits display the varied talents of BNL employees and family members.

The exhibit will be open through December 8, from 1:00 to 5:00 p.m. weekdays. On November 30 and December 5 it will be open before the Pegram Lecture from 7:30 to 8:30 p.m., and before the December 3 Lecture from 5:00 to 8:30 p.m. The exhibit closes December 8 at 4:00 p.m.

## Pool Schedule

- Weekdays  
12:00-1:30 p.m. - Employees only  
5:00-9:30 p.m. - Employees, Family, Visitors
- Sat.-Sun.  
1:00-6:00 p.m. - Employees, Family, Visitors

### ADMISSION FEES

- Daily Tickets  
Employee or Family Members ..... 50¢  
Visitors ..... 75¢
- Season - October 16 - February 10  
Employee or Family Members ..... \$ 5.00  
Family - (Immediate Family\*) ..... \$10.00

\*Members of employees family residing in his or her household.

## Gymnasium Schedule

November 7, 1972 through April 1973  
(Revised 11-16-72)

- Monday**  
5:00-8:30 Volleyball League (Mixed) (2 matches)  
7:00-8:30 Volleyball League (Mixed) (1 Match)  
7:00-9:30 General Activities
- Tuesday**  
5:00-7:00 Judo Club  
5:00-9:30 General Activities
- Wednesday**  
5:00-8:30 Volleyball League (Men) (4 matches) 5:30, 7:00  
8:30-9:30 General Activities
- Thursday**  
5:00-9:30 Basketball League (4 games - 5:30, 6:40, 7:50, & 9:00)
- Friday**  
5:00-7:30 Soccer League  
7:30-9:30 Tennis (by posted self-service reservation)
- Saturday**  
9 a.m.-12 noon Tennis (Sign up at Police Headquarters)  
12 noon-9 p.m. General Activities (Key at Police Headquarters)
- Sunday**  
9 a.m.-12 noon Tennis (Sign up at Police Headquarters)  
12 noon-9 p.m. General Activities (Key at Police Headquarters)



Ginnie Sayre pauses while preparing an oil painting for hanging to contemplate a sculpture of a seated Pan.

## Weather Information

As in past years Lab employees are urged to listen for notices affecting working hours before starting to the Lab on snowy days. Information on revised schedules due to inclement weather will be carried by the following stations:

Station	Area	AM	FM
WALK	Patchogue	1370	97.5
WBAB	Babylon	1440	102.3
WGLI	Babylon	1290	—
WGSM	Huntington	740	—
WHLI	Hempstead	1100	98.3
WHRF	Riverhead	1570	—
WLIX	Islip	540	—
WLNG	Sag Harbor	1600	—
WPAC	Patchogue	1580	—
WRIV	Riverhead	1390	—
WWRJ	Southampton	—	95.3
WBLI	Patchogue	—	106.1
WRCM	Riverhead	—	103.9

## Opera Tickets

We still have tickets available for the following performances:

- Dec. 4 Siegfried
- 11 Faust
- 18 La Boheme
- 21 Faust
- Jan. 2 Otello
- 3 Pique Dame
- 4 Un Ballo In Maschera
- 9 La Traviata
- 11 La Fille De Regiment
- 15 La Fille De Regiment
- 18 Pique Dame
- 22 La Fille De Regiment
- 23 Un Ballo In Maschera
- 25 Macbeth
- 29 Rigoletto
- 30 Aida
- 31 Macbeth

Please note: Tickets not sold two weeks prior to a performance may be purchased by those employees who already have four sets of tickets in their possession.

## Stony Brook Events

An extensive schedule of activities are open to the community residents throughout the week at the State University of New York at Stony Brook. Unless otherwise noted, the events are offered free of charge. Highlights of the week include productions of two plays, "Peer Gynt" and "The Boy Friend."

### Friday, December 1

The University Theatre Department's updated version of Ibsen's classic play "Peer Gynt" opens this evening at 8 p.m. in the Surge B. Theatre, located on the South Campus. Directed by Thomas Neumiller, the production uses the format of a three-ring circus with the actors dressed as clowns. Tickets are \$1 and reservations should be made in advance by calling 246-5681. The play will also be presented on Saturday, Sunday, and Monday, December 2, 3, and 4, same time and place.

The Committee on Cinematographic Arts (COCA) will show a comedy festival, featuring Charlie Chaplain, Laurel and Hardy, and the Marx Brothers, in Lecture Center Room 100, at 8 p.m. and midnight. There will be a limited number of tickets available at the door for \$1. The comedy festival will also be presented on Saturday, December 2, same time and place.

### Saturday, December 2

The Stony Brook Union will present a Kiddie Matinee at 10:30 a.m. on the Union Theater. Today's program includes folksinger Sue Pravda and story-teller Robin Hughes. Admission is 50¢ per person.

### Sunday, December 3

COCA will present the film "Marat/Sade" in Lecture Center Room 100, at 8 p.m. There will be a limited number of tickets available at the door for 50¢.

### Tuesday, December 5

Two of W.C. Fields' feature length films, "Six of a Kind," and "Million Dollar Legs," will be shown by Tuesday Flicks at 4 p.m. and again at 8 p.m. in the Stony Brook Union Theater.

"Seattle Convention," a film of the 1971 convention of the American Buddhist movement, will be shown at 8 p.m. in the Stage XII Cafeteria. The film includes a youth congress and cultural shows. A coffee hour will follow.

"The Boy Friend," a play by Sandy Wilson, produced by the Punch & Judy Follies, will be presented at 8:30 p.m. in the Glass Room, Stage XII Cafeteria. Tickets are \$2 and may be reserved in advance by calling 246-3673.

### Wednesday, December 6

Former head of the CBS laboratories, Dr. Peter Goldmark, inventor of the long playing record and a pioneer in the development of color television and videotape cassettes, is scheduled to speak on "The New Rural Society: The Role of Communications Technology in the Urban Crisis" at 8 p.m. in Room 110 of the Lecture Center.

The final lecture on witchcraft, voodoo, and magic will be held at 9 p.m. in Room 236 of the Stony Brook Union. Raymond Buckland, high priest of the New York Coven of Witches and director of the Buckland Museum of Witchcraft and Magic in Bay Shore, will speak.

"The Boy Friend," a play by Sandy Wilson, produced by the Punch & Judy Follies, will be presented at 8:30 p.m. in the Glass Room, Stage XII Cafeteria. Tickets are \$2 and may be reserved in advance by calling 246-3673. The play will also be presented on Thursday, December 7, same time and place.

### Thursday, December 7

"The Cinema: A World Overview" will present "Diabolique," starring Simone Signoret and directed by Henri-Georges Clouzot, at 8:30 p.m. in Lecture Center Room 100. Also shown will be three shorts by Jim Davis, "Through the Looking Glass," "Writ in Water," and "Impulses."

## BERA Participation Awards

In the first two years of our program over 1400 participation cards have been earned by over 600 of our employees.

To date about 150 of our enthusiasts have earned the necessary 3 cards and been awarded a jacket or sweater with the BERA insignia.

The Awards Committee has plenty of awards in stock. So start collecting your cards. If you don't know how, ask any activity chairman or a member of the committee.

For those who do have 3 cards you may pick your award up at the Gymnasium on alternate Wednesdays between 12:00 noon and 1:00 p.m., November 29, December 6-20, January 3 and 17.

## Mountain Club Meeting

The next scheduled meeting of the Mountain Club will be held on December 7, at the Recreation Building at 7:30 p.m. Please note this is the first Thursday and not our usual meeting night.

There will be slides and discussions of winter hikes. Everyone is welcome.

