



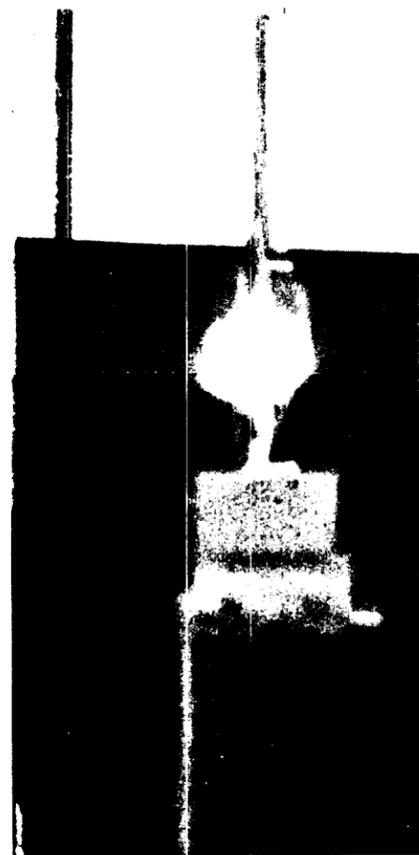
## Ball Lightning Lecture Draws A Large Audience

Dr. James Leslie Tuck, Division Leader in Physics at Los Alamos Scientific Laboratory, delivered a lecture on "Two Conjectures on the Nature of Ball Lightning" to a capacity crowd in the Chemistry Seminar Room last Thursday.

Tuck, who described BNL as "The greatest center in the world for ball lightning study," said that his own interest in the subject was sparked by a paper written by James Powell and David Finkelstein.

Several examples of ball lightning sightings were described, including one where a luminous ball came from the cockpit door of a plane, bounced down the length of the aisle, and then disappeared into the rest room at the rear of the plane. Another sighting was in a submerged submarine that ran the length of the battery room of the ship.

Tuck described his efforts to duplicate ball lightning in the laboratory using the power supply and switching gear of a submarine, and showed some stop-motion films of the results of this experiment. He described his research on ball lightning as being "financed out of the office stamp box, and accomplished during lunch hours."



Simulated ball lightning made in a laboratory at BNL. Results achieved in the laboratory confirm a theoretical model of ball lightning and explain this natural phenomenon which has puzzled scientists for hundreds of years.

Ball lightning has been studied for more than a thousand years, but did not come into scientific prominence until barely a year after Ben Franklin drew electricity from the clouds in his famous kite and key experiment. A Russian scientist gave his life to a similar experiment during an attempt to fathom the mysteries of ball lightning. In the paper by Powell and Finkelstein, the Russian experiment and its unhappy conclusion is described. The authors then went on to postulate an answer to the question of what actually caused the death of the Russian scientist.

Research on ball lightning languished after the Russian incident, and was not revived again until recent times when Powell, Finkelstein, Tuck, Kapitza, and a dozen other scientists decided to take a serious look at the subject. Part of the current research includes a collection of eyewitness accounts from people who have viewed the phenomena, and to this end, readers of the Bulletin who have seen ball lightning are asked to contact Jim Powell and relate their experience.

Tuck ended his presentation with a prediction that someday there would be "real funded research on ball lightning - with secretaries and desks, you know!"

## Ball Lightning Researchers



Dr. James Tuck (left) of Los Alamos chats with James Powell of Brookhaven after a Department of Applied Science Colloquium on Ball Lightning.

## New Trustees Elected At AUI Annual Meeting

Five new members were elected to the Board of Trustees of Associated Universities, Inc., at the Annual meeting of the organization in Washington recently.

Chosen to be University Trustees were: Dr. Charles K. Bockelman, Deputy Provost for the Sciences, Yale University; Dr. Albert G. Hill, Vice President for Research, Massachusetts Institute of Technology; Dr. Alfred K. Mann, Professor of Physics, University of Pennsylvania; and Mr. Benjamin G. Willis, Director of Sponsored Research Administration, Johns Hopkins University.

Dr. Stirling A. Colgate, President of the New Mexico Institute of Mining and Technology, was chosen to be a Trustee at Large.

Re-elected to the Board were: Dr. Robert F. Bacher, Provost, California Institute of Technology; Dr. Allyn W. Kimball, Department of Biostatistics, The Johns Hopkins University; Dr. Francis E. Low, Physics Department, Massachusetts Institute of Technology; Dr. LaRoy B. Thompson, V.P. and Treasurer, The University of Rochester; and Dr. Milton G. White, Director, Princeton-Penn Accelerator.

Members of the Executive Committee will be: Dr. Gerald F. Tape and Dr. Allyn W. Kimball, ex officio; Dr. Carl C. Chambers, Dr. Joseph C. Elgin, Dr. Louis H. Hempelmann, Dr. Vernon P. Hughes, and Dr. Francis E. Low.

Officers of the corporation are: Dr. Gerald F. Tape, President; Lewis R. Burchill, Treasurer and Controller; and N. Peter Rathvon, Jr., Secretary.

In addition to the election of officers, the Board elected new members of the Visiting Committees to replace those who were retiring this year.

## Alerting All Artists

It's time for the annual exchange of paintings at the BNL hospital of the Medical Research Center. These paintings, loaned for a year, give much happiness to the patients and their visitors, and enliven the corridors as nothing else can.

Paintings which were loaned this past year should be picked up November 9 or 10 at the Occupational Therapy room in the Medical Department. Paintings to be loaned for the coming year should be taken to the same place on those dates. All work must be framed and ready for hanging, and may be marked "for sale" if the artist wishes. All paintings are fully insured by the Laboratory.

If you have work on loan that you are willing to leave another year, please notify Mrs. Korso, Ext. 7449 before November 1.

New participants in this exchange are most welcome. If there is a question, call Mrs. Korsos at the above number, or Mrs. Dahl, AT6-0379.

## GSA Car Drivers

Drivers of GSA cars and trucks who are at Brookhaven, are reminded that winter is approaching, and cooling systems should be checked.

Procedures for checking and replenishing anti-freeze have been outlined in a letter sent to each listed driver of such a vehicle. Further information may be obtained by contacting the transportation section of Staff Services at BNL or by calling Ext. 585.

## Early Chow for Visitors' Day

The Cafeteria will be open from 8 to 9 a.m. on October 31 to accommodate those who are reporting to work during Visitors' Day.

## United Fund Drive Starts This Week

For the sixth year Brookhaven National Laboratory will participate in the United Fund of Long Island by offering a payroll deduction plan for all employees who wish to contribute.

Information and pledge cards have been distributed throughout the Lab, so that each employee may decide for himself if he will participate, and to what degree.

The United Fund helps support 81 health, welfare, and character-building agencies, hospitals, and services in Nassau and Suffolk Counties through its annual fund-raising campaign.

Local agencies that benefitted last year include:

American Red Cross Suffolk Chapter	\$ 62,703
Boy Scouts of America Suffolk Council	48,320
Suffolk Girl Scout Council	34,114
Good Samaritan Hospital	16,178
Brookhaven Memorial Hospital	12,792
Central Suffolk Hospital	7,825
Suffolk Family Service League	21,855

Legal Aid Society Suffolk	1,000
John T. Mather Memorial Hospital	13,014
St. John's Smithtown Hospital	13,320
Southside Hospital	19,452
Total	\$258,787

The concept of a single fund drive each year for all worthy non-profit agencies is not new. Millions of people in some 2,200 communities across the nation have found that giving the "United" way is the most convenient, and effective way to sustain these services.

Those wishing to participate should fill in a pledge card and send it to the Payroll Supervisor, 37 Brookhaven Avenue, as soon as possible. The information on the card will, of course, be confidential. Please note that the pledge card requires your signature, as well as the beginning and ending dates of your "Fair Share" deductions. All pledges currently in effect from the 1969 campaign will terminate on December 31, 1970.

## Director Calls For Personal Commitment To Affirmative Action

Dr. Maurice Goldhaber, Director of BNL, has issued an appeal to all Department Chairmen and Administrative Heads to actively apply themselves to a personal commitment to the Lab's policy of Affirmative Action.

In a letter to the administrators Dr. Goldhaber said, "Just three years ago Dr. Glenn T. Seaborg, Chairman of the AEC, made a statement committing the AEC and its contractors to a dynamic policy of equal employment opportunity. In the first paragraph of his statement, Dr. Seaborg said:

"The attainment of full equal employment opportunity within the AEC's organization and in the AEC's contractor operated facilities is one of the Commission's prime objectives. Equal opportunity in employment is clearly a National requirement - one whose importance becomes more evident each day - and it is essential that publicly owned segments of the economy lead the way."

"Brookhaven National Laboratory supports in full Dr. Seaborg's position. It is important for every one of our employees to recognize that the effective application of the Equal Employment Opportunity Program, which has now developed into an Affirmative Action Program, involves more than a policy statement - it involves a personal commitment to affirmative action.

"The Laboratory is pledged to obtain adequate minority representation in jobs at the Laboratory. We have made some progress in the past years. For example, in 1966 the Laboratory had 100 Black employees; the total had increased to 157 in 1969. In spite of recent layoffs which reduced this number, there has been no decrease in the percentage of Black employees at Brookhaven.

"This, however, is only a start. Among our Black employees there are 5 scientists, 2 managers, 22 professionals, 36 technicians, 20 clerks, and 9 skilled craftsmen, but more than a third of the total still hold semi-skilled or service positions. Our goal is to achieve an increased representation of minority group employees in all of the general classifications - scientific, administrative, and technical - as well as an overall increased percentage in each department or division.

"To help us accomplish this goal, I have asked the Personnel Office to work closely with you to insure that no employee with the capacity and desire to learn is overlooked for promotion to a job requiring greater skills.

"I realize it will not always be possible to promote present employees, but I believe if we give them honest and careful consideration, taking their potential into account, the result will be an increased number of promotions. Personnel maintains a skills inventory of employees and applicants. The addition of Mr. LeGrand Newman to the Personnel staff provides a new vigor in our program to train employees.

"I ask that you hold meetings with your supervisors to reaffirm to them the Laboratory's Affirmative Action Program, for it is they who must turn this policy into practice and who are responsible for seeing that minority employees in their groups are given every opportunity to progress. In addition I ask each of you - if you have not already done so - to appoint an individual who will be responsible to you for the administration of the Laboratory's Affirmative Action Program.

"In implementing this policy, I have asked Mr. Washburne and Dr. Anderson to review all proposed promotions."

## Coming Attractions

- 10/31 **Visitors' Day**  
9 a.m.-4 p.m.
- 11/10 **BERA Concert** - Ronald Roseman, Oboist  
Berkner Hall - 8:30 p.m.
- 11/12, 13, 14 **The Lion in Winter**  
BNL Theatre - 8:30 p.m.

## Stony Brook Events

This week Associate Supreme Court Justice William O. Douglas will speak on "The Conservation of Man" at the State University of New York at Stony Brook. Films, concerts, and lectures are also scheduled from Friday, October 30 to Thursday, November 5. Unless indicated, the events listed are open to the public without charge.

### Friday, October 30

The Committee on Cinematographic Arts continues its Anti-War Film Festival with "Charge of the Light Brigade" at 8 p.m. and "Shame" at 10:30 p.m. in the Union Theatre, admission \$1.00.

### Saturday, October 31

As part of a Children's Film Festival, "Stuart Little," a movie narrated by Johnny Carson about a remarkable New York City mouse, will be shown at 10 a.m. and 2 p.m. in the Union Theatre, admission 50¢.

Rock concerts by The Grateful Dead are scheduled for 8 p.m. and midnight in the Gymnasium, admission \$4.00.

### Sunday, November 1

Divali, the Indian "Festival of Lights" will be celebrated at 6 p.m. in the Union Theatre with dances by visiting artists, songs, a skit, other activities and refreshments. Admission 50¢.

Under the direction of David Lawton, the University Orchestra will present a concert featuring works by Mozart, Brahms and Sibelius at 8:30 p.m. in the Women's Gym.

Associate Supreme Court Justice William O. Douglas will speak on the "Conservation of Man" in the Men's Gym, admission \$1.50. Tickets may be purchased at the ticket office in the gym between 11 a.m. and 5 p.m.

### Monday, November 2

A piano recital by Clara Freedman a graduate student, will feature works by Haydn, Bach, Schumann, Copeland and Chopin at 8 p.m. in Room 105 of the Lecture Center.

### Tuesday, November 3

A panel directed by Biology Professor Elof Carlson will discuss "Science and Religion" at 7 p.m. in Room 100 of the Lecture Center.

Continuing the Anti-War Film Festival, "Elusive Corporal" will be shown at 8 p.m. in the Union Theatre, admission \$1.00.

### Wednesday, November 4

Dr. Thomas Altizer, director of the Program in Religious Studies, will speak on "Zen Buddhism" as part of his "Fundamentals of Religion" lecture series at 7 p.m. in Room 110 of the Lecture Center.

Continuing his series on "The World-View of Modern Physics," Professor Clifford Swartz will discuss "Order and Chaos" at 7 p.m. in Room 137 of the Physics Building.

### Thursday, November 5

Speaking on "The Literary Works of William Blake," English Professor David Erdman will examine the poet's illuminated, color-printed Songs and Prophecies in the context of the French Revolution, and the Napoleonic Wars at 7 p.m. in Room 102 of the Lecture Center.

"Breathless," a film starring Jean Paul Belmondo which is considered a primary example of cinema verité will be shown at 8:30 p.m. in Room 100 of the Lecture Center. Tickets may be picked up in Room 294, Administration Building, between 2 and 10 p.m., Monday through Wednesday.

Concerts by Small Faces with Rod Stewart are scheduled for 7:30 and 10:30 in the gym, admission \$3.50.

## Cafeteria Menu

### Week ending November 5, 1970

<b>Friday, October 30</b>	
Manhattan Clam Chowder	
Spaghetti w/Clam Sauce	.80
Broiled Swordfish w/1 Veg.	.90
Salisbury Steak w/1 Veg.	.80
<b>Monday, November 2</b>	
Onion Soup w/CROUTONS	
Sliced Steak w/Beef Gravy & 1 Veg.	.85
Barbecued Roast Pork w/1 Veg.	.80
Jumbo Broiled Knockwurst w/Sauerkraut & Mashed Potatoes	.75
<b>Tuesday, November 3</b>	
Puree of Split Pea Soup	
Beef Hash w/1 Veg.	.75
Fried Boneless Breast of Chicken w/1 Veg.	.80
Indian Lamb Curry on Rice	.80
<b>Wednesday, November 4</b>	
Vegetable Soup	
Baked Tomato Meat Loaf w/Gravy & 1 Veg.	.80
Baked Pork Chop w/Apple Sauce & 1 Veg.	.85
Fried Codfish Cakes w/Spaghetti	.75
<b>Thursday, November 5</b>	
Cream of Mushroom Soup	
Boiled Beef w/Horseradish Cream Sauce & 1 Veg.	.80
Chicken Chow Mein on Rice w/Crisp Noodles	.75
Beef Ravioli w/Cheese & Tossed Green Salad	.80

## Nobel Laureate At Brookhaven



Dr. Max Perutz, Nobel Laureate in Biology, (left) talks with Dr. Maurice Goldhaber and Mrs. Goldhaber in Berkner Hall after a Brookhaven Colloquium on "The Atomic Mechanisms of Respiration Transport" delivered by Dr. Perutz on Monday.

Dr. Perutz gave a detailed account of the oxygen transport system. He outlined the intricate mechanism by which oxygen is bound to hemoglobin and showed how the binding of one oxygen molecule increases the "affinity" of the hemoglobin molecule for three more oxygen molecules. "To him who has shall be given" he further showed how this molecular "lever system" is affected - mostly detrimentally - by changes in the amino acid sequence as found in over 200 abnormal hemoglobins. This detailed x-ray crystallographic analysis of hemoglobin which Dr. Perutz pursued for over 30 years, now leads to a molecular understanding of severe hematological diseases and now opens possibilities for biomedical treatment of such diseases.

Dr. Perutz's colloquium on Monday was followed by a workshop meeting in the Biology Department on Tuesday morning, where some of the details were highlighted in connection with local efforts in hemoglobin research.

## Ecologists At Work



Buford Holt and Stuart Stevens of Biology collect samples of plants from a marsh to the east of Brookhaven Lab. The collection of plant life was part of a summer study of the structure and function of ecosystems. Samples were collected and analyzed to record an inventory of the species found in similar areas.



Walking in the mud to collect samples is a good way of finding a leech or a mud turtle.



Stuart Stevens places a frame over a measured segment of the marshland to delineate the area from which samples are to be taken.

## A Summer Study

A fresh water marsh near the east boundary of Brookhaven Lab was the scene of a summer study by ecologists from BNL's Biology Department. Buford Holt and a summer student, Stuart Stevens, have taken regular samples of the aquatic plants to provide background data for looking at similar areas in the future.

The fresh water marsh is a pristine and primitive area that has been in existence for almost as long as Camp Upton has been in use. In and around its waters are ducks, frogs, fish and turtles. Deer are seen in the area, and the waters are covered with lilies and duckweed during the summer months.

## BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

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NORBERT J. DERNBACH  
Public Relations Officer

## Letters To The Editor

The three letters reprinted below are only a few of the many received after the recent High School Visitors' Day at Brookhaven National Laboratory.

Dear Sir:

On October 17, I went to Brookhaven with my school and I liked it very much. Someday I would like to become a laboratory technician and to work with experiments in the field of Biology. Right now I am a sophomore at St. Barnabas High School in the Bronx. I would appreciate it greatly if you could send me some information as to what courses I would have to take.

Thank you.

Andrea Frank

Dear Sir:

I would like to thank, through you, the members of the Brookhaven National Laboratory who participated in or were a part of the High School Visitors' Day program this past Saturday.

Those students from Chatham High School, New Jersey, who attended were highly enlightened and thoroughly enjoyed the visit. I think that they were inspired to approach their Nucleonics course with renewed zeal.

Gertrude M. Clarke

Dear Sir:

I am a senior at St. Raymonds High School, Bronx; upon visiting your Laboratory on Visitors' Day, I became interested in your exhibit on Concrete-Polymer. I was thinking of doing research in this field for a Science Fair Project. It would be most helpful to me if you would send me any literature on this process and its industrial uses.

Thank you for your kind attention.

Joseph M. Hughes, Jr. Esq.

## Here and There

Claire Lamberti

Lester Corliss (Chemistry) attended the Sagamore Conference III on Charge, Spin, and Momentum Density held at Aussois, France, as the official representative of the Neutron Diffraction Commission of the International Union of Crystallography. He also acted as chairman and discussion leader of the session on spin density and participated in the 1970 International Conference on Magnetism at Grenoble as chairman of a session on phase transitions.

M.M. Small (PE & P) attended the 1970 AEC Plant Facilities Managers' Meeting at Argonne National Laboratory and the National Accelerator Laboratory, October 13-15.

Elliot N. Shaw (Biology) was in Washington, D.C. in order to discuss the proposal to the National Science Foundation on the Center for Structural Biochemistry with Dr. A. Eisenstark.

Lewis J. Greene (Biology) presented a lecture on "Pharmacologically Active Peptides as Enzyme Inhibitors" and conferred with participants in the Physiology Course at the Marine Biological Laboratory, Woods Hole, Massachusetts.

Lesley F.W. Coggins joined the Biology Department as Research Associate. She received her Ph.D. at Yale University under Dr. J.G. Gall and will work in association with Arnold H. Sparrow.

## Selected Reading

Each week the Brookhaven Bulletin will list articles of general interest that have been received by the Research Library. Listings will follow the style formerly used in the Weekly Selected Reading List.

Reflections: The megamachine. Pts. I and II. L. Mumford. *New Yorker* 46, 50-2+, October 10, 1970; *ibid* 48-50+, October 17, 1970

Crucial days ahead for developing U.S. science policy. *Chem. Eng. News* 48, 26-8, October 12, 1970

Some pathologies of the scientific life. J.M. Ziman. *Advan. Sci.* 27, 7-16, September 1970



Ronald Roseman

## BERA Concert Series Opens With Oboist

The present season, although unusually late in getting underway, promises to be an exceptionally fine and varied one. The season will begin on November 10 with a recital by the oboist Ronald Roseman, acclaimed by the New York Times as "... one of the finest oboists around this or any other town ..."

The second concert, December 2, will feature a "first," the saxophonist James Houlik. A faculty member of East Carolina University (and a native of Long Island) Mr. Houlik is among the very few pioneer musicians who perform serious music exclusively on the saxophone. He has dedicated his career to uplifting the role of the saxophone in music.

Music from Marlboro probably needs no introduction at this point. Suffice it to say that we are proud to welcome some of the "ambassadors" of Rudolf Serkin's Vermont Summer School here for our third concert on January 19.

On February 2, Eleanor Steber will be with us, keeping the engagement which she had to postpone on account of an accident. Miss Steber, one of the great Metropolitan Opera sopranos, has been acclaimed all over the world as both a "queen of song" and a "great singing actress."

The Beaux Arts Trio will present our fifth concert on February 18. In the words of the late Charles Munch, "... they are worthy successors of the last great trio - Thibaud, Casals and Cortot ..."

On March 9, the BNL audience will welcome the Dvorak String Quartet of Prague. Originally identified mainly with Dvorak's music, this group has developed into a quartet with a massive repertoire and earned acclaim all over Europe.

The season will come to an end on April 7 with a recital by the renowned pianist Robert Goldsand. Mr. Goldsand is noted as much for his technical virtuosity as for his big, romantic approach. He is also known for the originality of his programs.

The concerts will take place at 8:30 p.m. in Berkner Hall. Save by buying season tickets at \$13.00 for employees and family members, \$6.50 for persons under 18, and \$15.00 for visitors. Single admissions are \$3.50, \$1.75, and \$4.00, respectively.

Season tickets may be purchased from Department ticket sellers, Concert Committee members, or at the Recreation Office.

Tickets for individual concerts may be purchased in advance at the Recreation Office or at the door the night of the concert.

## Public Sale Of Motor Vehicles

Five (5) motor vehicles, located at Building T-87, will be available for Public Sale.

Inspection will be permitted from November 10th through November 17th, during the hours of 9 a.m. to 4 p.m., except Saturday and Sunday. Bid opening will be held on November 19th, at 2 p.m.

Bids will be opened at General Services Administration, Business Service Center Bid Room, 26 Federal Plaza, New York, New York, 10007. Tel.: Area Code 212, 264-2637.

This will be an informal competitive bidding. Bid forms may be obtained at buildings 87 and 211. For further details, please call Extensions 2509 or 2704.

## Astrology Forecast From Campers Club

Be you under the sign of Leo, Capricorn, Virgo, Pisces, or any other, your horoscope for next Friday will be that you will have a happy time if you come to the BERA Dance at the Gymnasium.

The Family Campers Dance Committee dares to make this prognostication for Friday, November 6th.

The Wayne Foster Orchestra will start playing at 9:00. Plan to come early so you don't miss a minute of their music and entertainment.

The Recreation Office is accepting table reservations for all those who want band-side seats for the evening. If you're planning a party of up to ten people, we recommend the reservation system to insure seats for all at the same table. Tickets will be sold at the door if table space is still available.

Even though our two door prizes have nothing to do with the Age of Aquarius theme, we think they're mighty handsome prizes and we're sure the winners will be pleased in owning them. One is a wooden treasure chest fitted with two bottles for your favorite spirits and four amber colored shot glasses. The other has been a conversation piece since we placed it on display at the Recreation Office. Talk about a different looking ice bucket - we've got it! You have to see it to believe it!

Mixes and beer will be on sale at 25¢ a can. Bring your own bottle if you like. Ice, potato chips and pretzels will be provided free of charge.

Admission is \$2.50 each for employees and escorts and \$3.00 each for visitors.

The Dance Committee, already at work for your pleasure, will be moving into the Gymnasium right after Visitors' Day to begin their decorative efforts. Committee Chairman Ken Doughty will be assisted by Decorating Co-Chairmen Rosalie Sajnacki and Eugene Johe with Elton Tank, Harvey Bumstead and all the troops they can recruit.

## Bowling News

Grace Fales

### Red League

The Old Timers are closing the gap on the 1st place Alphas by bowling a new high team series of 3085. The rest of the League was in there pitching with high games by R. Nelson 218/204/684 gross series, J. Baranosky 214/193/193/600 scratch series, J. Berech 210/679 gross, J. Richter 214, W. Reams 206, P. Klotz 202, J. Cain 202, B. Brehm 202, and G. Waldbauer 202. R. Nelson increased his high League average to 189.

### Green League

High games for the night reported as C. Cantera 200, C. Tomesch 206, K. Riker 205, R. Dobert 202, E. Meyer 204/590 series (League high), R. Larsen 213, J. Scesny 200/203/589 series, and E. Sunberg 207.

### Pink League

High game for the night was Grace Fales' 176, followed by Brita McGonigle 170/150, Betty Jellett 169/166, E. Murgatroyd 168, Pat Oster 168, Rosalie Piccione 166/168, Karen Mayer 158/150, Marion Mayhew 155, Kay Hunt 152, and arie Brenner 151. Also, many 140 games - too numerous to mention.

### Black and Blue League

We had news last week, but the Secretary was goofing off on vacation. The Odd Couples set a new high team gross of 2416. Joe Mayeski rolled a 211/545 series and Dick Murgatroyd had a 191/507 series. Jo Schonberg was the top gal with a 141/405 series. This week the AR's weakened and lost a game, while the Pacesetters were sweeping into first place. Dick Schonberg was high for the men with a 189/479 series, and Mona Vitale for the women with a 159/446 series.

## Arrivals & Departures

	<b>Arrivals</b>	
George S. Lowe	.....	P E & P
	<b>Departures</b>	
Herbert F. Hain	.....	Physics
Benedict Vitale	.....	Accelerator

## The Lion In Winter

The BNL Theatre Group's production of the James Goldman drama about kingly succession should have pertinence for our time. See how Henry II handled the generation gap.

Opening night is Thursday, November 12th, with additional performances on Friday, November 13th, and Saturday, November 14th.

Tickets are now on sale at the Recreation Office or from your Department ticket agent. Get yours now!

Department Agents:

- Accelerator - Carmen Falkenbach
- Applied Math - Nancy Griffin
- Biology - Irene Steele
- Chemistry - Elaine Rowland
- DAS - 197 - Georgia Irving
- 815 - Patricia Taylor
- Hot Lab - Manny Hillman
- Director's - Eleanore Murgatroyd
- Instr. & H. P. - Barbara Squediri
- Medical - Claire Hull
- Hospital - Ruth Korsos
- Physics - Pat Towey
- Reactor Div.
- Graphite - Audrey Bangel
- High Flux - Theresa Terlizzi
- Recreation - Blanche Laskee
- Research Lib. - Esther Semm

## Hospitality News

The Hospitality Committee was founded many years ago by wives of staff members. Today its membership includes all wives of employees as well as all female employees.

The purpose of the Committee is to introduce those who are new to the Laboratory, to the BNL community as well as to offer an opportunity for all its other members to get together.

There is a morning coffee in the Apartment Area (look for signs pointing the way) on the fourth Monday of every month from 10 a.m. to noon. Twice each year, in November and in May, a tea and sherry party is held at the BNL Center from 3 to 6 p.m.

We look forward to seeing as many of you as possible at the morning coffees and at the upcoming tea and sherry party on November 17 - it's a fashion show!

For additional information, please call Jacqueline Newman, chairman, on 265-7183.

## IBEW Meets Tonight

The next General Meeting of Local 2230, IBEW will be held October 29, at 8 p.m. in the K of C Hall, Railroad Avenue, Patchogue. The agenda for the meeting will consist of general business and reports from committees, as well as a report from Delegates to the IBEW Convention in Seattle, Washington.

## Volleyball Reminder

The deadline for team entries for Men's and Mixed Volleyball is Friday, November 6.

Entry forms and information are available at the Recreation Office. If you would like to play but haven't been able to get together a team, call Ext. 2808 to get in the Players Pool.

The Men's League, which will have games on Wednesday evenings, is a competitive activity. The Mixed League (men and women employees and spouses) will be played on Mondays at 5:30 and is intended to provide a less demanding, enjoyable activity, suitable for all.

## Shoreham Hearings Adjourned Again

After three days of cross-examination of witnesses from the Long Island Lighting Company, by representatives of the Lloyd Harbor Study Group, hearings by the Atomic Safety and Licensing Board were recessed again for a later date.

The hearings, which had originally been held in Rocky Point, were moved to the County Center in Hauppauge on Monday. Andrew Wofford, project manager for the Shoreham Plant, bore the brunt of most of the questions directed at LILCO during the past three days.

## Cast of The Lion In Winter



Joseph Nardi as Henry



Julie Peierls as Eleanor



JoAnn McGrath as Alais and Mike Lasquardo as Philip



Richard Silberglitt (foreground) as John. Bob Kinsey as Geoffrey, and Graham Campbell as Richard.

## Cooking Exchange

The next meeting of the Cooking Exchange will be held on Thursday, November 5, from 3 to 5 p.m. in the Apartment Area Recreation Building. Punch and cookies will be featured in the cooking demonstration.

A fee of 75¢ will be requested from each adult to defray the cost of the demonstrations and the babysitters.

## Classified Advertisements

### Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once.

**EXECUTIVE DIRECTOR** - Part time. Minimum requirement - Bachelor's degree plus experience. Send résumé to Chairman, Planned Parenthood of East Suffolk, Inc. 119 N. Ocean Ave., Patchogue, N.Y. 11772, or call 363-6787 for further information.

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

### Autos & Auto Supplies

65 DODGE CORONET - 6 cyl, radio, auto, ps. \$450. 281-4549.

65 OPEL STA WGN - \$150. 281-5205.

66 DODGE MONACO - 9 passgr wgn, ps/pb, roof rack, radio, welded on trailer hitch. \$1500. Davis, Ext. 439.

64 FORD GALAXY CONV - 8 cyl stick, r/h, good cond, needs sifter, reasonable. 281-7663.

64 CHEVY IMPALA V3 CONV - Auto trans, ps, r/h, new tires & snows w/wheels, new batt, good cond. \$500. B. Hollend, Ext. 2293.

67 1/2 VW BUG - 60 hp eng, 28,000 orig mi, am/long wave radio, 28 mpg, like new cond. \$1200. Richie, Ext. 7228, MO7-9218 after 6.

70 1/2 TOYOTA CORONA MARK II - Delx int, reclng buckets, console, 4 spd, Dunlop radials, 7,000 mi. Larry, 751-0268, 246-7110.

68 FORD CORTINA WGN - Auto, disc brakes, radials, new batt, exhaust, brakes, wheel bearings, 34,500 mi, excel cond. \$975. 751-1588.

68 OLDS DELTA CUSTOM SPT COUPE - Vinyl roof, buckets, w/walls, many extras. \$1995. H. Boyd. 727-3019.

VW RIMS - W/tubeless baldies on, use as spare or mount your own snow tires. \$10. Ext. 7782/2750.

59 VOLKS SUN ROOF - Good second car. \$150. Jerry, Ext. 7187.

14" FORD WHEEL - \$2; bumper jack. \$5. Joe, 281-7777.

69 VW BUG - 3eige, am/fm/short wave radio, 20,000 mi, excel cond. H. Wigger, 744-8349

27.75x14 SNOWS - W/Ford 5 lug rims, \$18; ski rack, lockable, truck mount, 6 pr. \$15. Grosso, Ext. 687.

63 FIAT - Rebuilt eng & carb, 2 Pirelli tires in excel cond, good for spare parts. \$75. Tom, 475-7227 after 6.

66 TOYOTA - 4 dr sedn, auto, new tires. 732-6114.

66 VW MICROBUS - Deluxe model, perf cond throughout, incl heavy duty 6' encl carrier rack. R. Paffrath, Ext. 2287.

51 CHEVROLET - 2 dr, power-glide, under 36,000 orig mi - honestly!, a classic, best offer. LT9-3269.

67 ROYAL ENFIELD - 750 cc, good shape, w/two helmets. \$750. LT9-3269.

67 VW - Red, radio, heater, sun roof, many extras, mech perf, body fair. \$1,000. 289-5648.

EXTRA SNOW/ RIM - 13" for Falcon or Comet. \$3; Geo, Ext. 657.

66 BUICK SKYLARK - R/h, auto trans, etc, must sell, getting new car. Asking \$995. Ext. 7480.

66 IMPALA - 2 dr ht, 6 cyl stick, new batt, brakes, clutch, carb, rebuilt head (valve job). 281-8622

66 IMPALA - 2 dr hat, 6 cyl stick, new batt, brakes, clutch, carb, rebuilt head (valve job). 281-8622 after 6.

61 IMPALA - For parts only, "it runs," all doors and glass good, 6 cyl, auto trans, 4 dr ht, gold, 281-8622 after 6.

57 CHEVROLET BEL AIRE - 4 dr sedn, good running cond. HR3-0963 eves.

14" FORD RIMS - 2 ea. \$8. K. Asselta, Ext. 7668.

63 MERCURY COMET CONV - 260 V8, auto trans, ps, r/h, new batt, gen. \$250. Nancy, Ext. 2342.

63 CHEVROLET STAT ON WAGON - V8, r/h, std shift, snows, good transportation. \$425. Ext. 387, 286-8544 after 6.

2 DUNLOP SNOW TIRES - Tubeless 4-ply nylon, 8.15x15, like new. \$40. George, Ext. 2151, 929-4818.

61 DODGE DART - 4 dr, auto, orig owner, 62,000 mi. Jerry, Ext. 445.

55 CHEVY CONV - V8, r/h, auto shift, good running cond. \$150. McChesney, 286-1352.

63 FORD COUNTRY SQUIRE WAGON - 9 pass, ps, r/h, good snow tires, good trans. \$375. Ext. 2203, AT6-0866 after 6.

CORVETTE FIBERGLASS HARDTOP - Will fit most years, best offer. Ray, Ext. 2255.

69 MUSTANG - Hi, 6 cyl, stick shift, A-1 appearance. Asking price \$1550. Ext. 7415, 924-3236.

68 ALFA ROADSTER - Excel cond, radio, big heater, guaranteed. Ext. 7201.

### Boats & Marine Supplies

19' FIBERGLASS SLOOP - Pearson "Resolute," Ratsey main & jib, 6 hp Chrysler, bracket + 2 tanks, cradle, winter and mooring covers, very good cond. \$1500. 732-3296 after 5:30.

20' CABIN CRUISER - 95 hp marine inboard FWC, plywood, easy maint hull, extras, incl inside storage. \$1500. Petruk, AT6-0124.

END OF SEASON SALE - 21' Jafco skiff, 100 hp Gray, ideal fishing boat, good cond. \$500. 286-8945.

70 40 HP JOHNSON - New power head, excel cond. W. Sinuk, AT6-9326.

### Miscellaneous

SPEND YOUR TIME ON YOURSELF - Not on the highway, be there, discover do-it-yourself flying, experienced certified pilot. A. Roesch, Ext. 7667.

MOVIE PROJECTOR - Keystone, dual 8, model K-560, still & reverse, auto load, 3 mos old, like new. \$40. C. Spulecki, Ext. 7525.

SCHOOL DESK - Nicely finished; radiator cover, 45x26, white; Mauser, sporting stock, large ring. AT6-1205.

CANNING KETTLES - Pickeling crocks, professional roller skates, bowling ball, fire place screen. Mrs. Lewis, GR5-9257.

WOODEN STORM WINDOWS - 3 @ 27 1/2x47 1/2, 5 @ 27x55 1/2, 3 screens @ 25 1/2x47 1/2. \$1.50 ea. Ext. 7782.

BICYCLE - Boys 24", very sharp. Jules, Ext. 576.

30-30 WINCHESTER - Teddy Roosevelt commed Mod 94, nickel-plated receiver, brand new. \$100. Tony M., Ext. 7525, 924-8225.

CLARINET - Plastic, excel cond, w/carrying case. S. Protter, Ext. 7120.

FOLDING BABY CARRIAGE - \$5; twin size bed spring. \$4. Joe, 281-7777.

CORNER GUN CABINET - Professionally built, cost \$500, M-1 Garand, Fin 30-06, 35 Marlin, Remington pump shot gun, all mint cond. Jerry, 878-0782.

RIDE ON MOWER - 5 hp, 25 in cut, 2 spd & rev, adj cutting hght; trim mower, 20 in. Both \$200. Mrs. Libertini, HR2-1619.

CEMENT BLOCKS - You pick up. 104 ea. 281-8649.

GE REFRIG - \$35; 22 in b/w Packard Bell TV. \$50. Ext. 7360, 928-3317.

SKI BOOTS - Men's size 9, leather lace, \$15; Childs size 3 rubber, lace. \$5. Petruk, Ext. 2142.

RUG - Approx 9x12, excel cond, forest green. \$8. Eunice, Ext. 2392.

OAK FIREWOOD - Seasoned, logs or split, pick up or delivered, 24"x30" long, 1/2 or cord, guaranteed to burn. Bob, 732-9517.

ROTARY MOWER - 21" self-propelled Jacobsen, 2 cycle, new blades & grass catcher, about 3 yrs old, just overhauled by professional. \$67.50. Ext. 2325.

ROTARY MOWER - 21" self-propelled Toro, 4 cycle, grass catcher, current model, never used. \$173 value for \$145. Ext. 2325.

PIANO - Baby grand (cable), full keyboard, bench incl, excel cond. \$800. Dave, Ext. 2593.

TYPEWRITER - Old office type Underwood, as is cond. \$20. Dave, Ext. 2593.

ASTHMATICS - Almost new Positive Breathing Machine by Ohio, orig cost in Oct \$130. sell for \$80. Dave, Ext. 2593.

STORM WINDOWS/SCREENS - Wood, good cond. 36"x39", 28"x51", 24"x39". \$2 ea. K. Hoffman, Ext. 2740.

BABY FURNITURE - Hardwood maple crib, w/custom made mattress. \$25; high chair. \$10. Ext. 7652, 286-2282.

110 AC GENERATOR - 1800 watts, 2400 watts surge, 4 hp Briggs & Stratton eng. Ed, Ext. 2137.

ROTARY MOWER - 21" push type, 4 cycle b&s motor, mulcher attachment, old but still works. \$10. Ext. 2325.

RELAXACIZOR - Like new. \$50. Pat, Ext. 7777.

HIDE-A-BED SOFA - \$20; lamp. \$5; round (3' diam) table. Ken, Ext. 2868.

GERMAN SHORT HAIR PUPPIES - AKC reg, beautiful markings. 929-4699 after 6.

STEREO - Dyna amp SCA 35, 35 watts, rms superb instrument, Miracord 40A, auto/manual turntable, compl w/base, dust cover & Pickering VIS AME. \$150/both. Mel, Ext. 2728.

BLEYLE SLACKS - 3 prs, size 10, wool knit, pull-on style, emerald green, navy blue, grey, like new. \$5/ pr. 941-3609.

BICYCLE - Girl's 20" "Rollfast" bicycle, new hi-riser handle bar, new banana seat, excel cond. \$25. 732-5829.

LADY SCHICK BEAUTIFYING MIST - Hair Curler, never used. \$18. GR5-5960 after 5.

REFRIGERATOR - Freezer, 2 dr Westinghouse, good working cond. \$45. 475-0037.

LARGE WHITE DOUBLE SINK - \$8; 2 matched wrought iron railings, blk & gold, \$15; boys 26" 3 spd bicycle. \$18. All very good cond. 273-5574.

LAWN MOWER - 24" riding reel, 3 wheel, good cond. \$85. Hank, Ext. 2407.

6' CHRISTMAS TREE - Excel cond, silver color. \$8. Hank, Ext. 2407.

POOL TABLE - 4'x8', compl w/cues, balls, rack, new cond. \$75. 924-4063.

22 CAL - Single shot rifle, excel cond, Mossberg, used very little. \$20. Ext. 7525.

BOWLING BALL - 13 lb, carrying bag & size 9 (woman's) shoes if wanted. Mrs. Marx, Ext. 2784 after 6.

WESTINGHOUSE DISHWASHER - Appearance good, needs pump, \$25; strawberry blonde 100% human hair stretch wig, sample. \$35. 281-5205.

8 MM MOVIE CAMERA - Bell & Howell, w/case, good cond. \$25. Janet, Ext. 380.

LIVING ROOM FURN - Sofa, 2 matching chairs, custom scotchguard slipcovers, excel buy. \$135. 878-0792.

BANJO - Vega-Fairbanks, good cond, w/case. \$75 or best offer. 585-8322.

ROTO BROIL - King size. \$15. Ext. 2492.

CAMERA - 35 mm Weli, lens Elmar 50 mm, 3.5, compur rapid 1/500, light meter, Weston Master II, range finder, plastic. All \$35. Petruk, Ext. 2142.

ELECTRIC BASS AMP - Marvel combo 20 watt, 12" speaker, can be used for other electric instruments, 3 mos old. \$65. Dave, Ext. 2593.

### Real Estate

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

### For Sale

EAST ISLIP - 4 bdrms, den, 2 baths, 2 car garage, non-development, beautiful trees, ideal mother/daughter. \$32,990. 581-0932 after 6.

### For Rent

BOAT TRAILER - 4 wheel Holsclaw, 21', 3000 lb cap. W. Schillinger, 744-6903.

SKI CHALET - 4 mi from Mt. Snow, avail from Thanksgiving Day to May 1st, sleeps 16. Ext. 7187.

2 FURNISHED BEDROOMS - Share sitting and bathroom, private entrance, private home, suitable for gentlemen. 924-6435.

### Wanted

CLEANING - Senior Girl Scout troop willing to clean cellars, garages and/or attics for a fund raising project. 588-0154.

HOUSE TO RENT OR BUY - Stony Brook, Setauket or Pt. Jefferson area, 3 bdrms, 1 1/2 or 2 baths, kitchen, liv & dining room, 2 car barage. Roe, Ext. 2700, 286-2280.

PETS - Going on vacation, pet sitting by day, wk, mo, no ocelots please. Tony, 924-8225.

TERRIERS - Poodles, spaniels to do in my home, reasonable & reliable. Tony, 924-8225.

WANTED - My lost flying companion, Ext. 2898.

TREE REMOVAL - Will do tree removal and chain saw service, home maint, painting, etc. Bob, 732-9517.

INTERESTED IN FREEZER - In good cond. Ext. 2447.

HOME FOR - 2 baby guinea pigs. Ext. 2852, 722-3887.

SEAMSTRESS - To fix lining in, and hem winter coat, other jobs in future. Mrs. Marx, Ext. 2784 Tues/Thurs all day, otherwise after 6.

DECORATOR ITEM - Pair of unusually large, 4' high, solid brass carved candlestick holders, will trade for round oak pedestal table. A. Anger, 289-5730.

FOREIGN CARS - In need of repair, free estimate, expert mechanics, 475-1091.

ORGAN - Electric portable. Manny, Ext. 2378, 363-6787 eves.

TRACTOR - Small w/attachments, plow, etc. George, Ext. 2231.

RENT OR BUY - Ranch or cape cod, 1r, 2 bths, 3 bdrms, din rm, 2 car garage, Stony Brook, Setauket, Pt. Jefferson area. Roe, 286-2280, Ext. 2700.

TYPING - Will do typing of manus., reports, letters, etc. at home. Frances, Ext. 7609, 722-3105.

### Carpools

PAYING RIDER - Seeks on-time ride from Bellport. Evonne, Ext. 396.

WANTED TO JOIN OR FORM - 2-3 man carpool, Greenlawn/Northport/Centerport vicinity or LIE Exit 51 or 52. Ext. 488.

### Lost & Found

FOUND - Man's watch near cafeteria. K. Riker, Ext. 7821.

## Gymnasium Schedule

Due to the scheduled Visitors' Day and the BERA Dance on November 6, the Gymnasium will remain closed for all physical activities until 5:00 p.m. on November 10.

At that time the following schedule will be in effect:

Note: *This schedule is subject to revision depending on the final structure of the organized activities.*

<b>Monday</b>	5:00-7:00 p.m. Volleyball League (Mixed)
	7:30-9:30 p.m. General Activities
<b>Tuesday</b>	5:00-7:00 p.m. Judo Club
	7:00-9:30 p.m. General Activities
<b>Wednesday</b>	5:00-7:30 p.m. Volleyball League (Men)
	7:30-9:30 p.m. Volleyball League & General Activities
<b>Thursday</b>	5:00-6:15 p.m. Judo Club
	5:15-9:30 p.m. Basketball League (4 games) 5:30, 6:40, 7:50, 9:00
<b>Friday</b>	5:00-7:30 p.m. Soccer League
	7:30-9:30 p.m. Tennis (by posted self-service reservation)

The above scheduled activities have first priority for use of the Gymnasium. Individuals wishing to play badminton, table tennis, lift weights, shoot baskets, etc., may do so whenever General Activities are scheduled or at other times when space is available and their activity does not interfere with the League and Club Programs.

### Safety Glasses

There will be no dispensing of safety glasses during the week of November 2nd due to the optician's vacation. For emergency equipment, contact the Safety Office.

### Classified Ad Policy

**Deadline is 12 noon Friday for publication the following week.**

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

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

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 112, 40 Brookhaven Avenue.

Employee's Signature..... Life No..... Ext.....  
Send to: Brookhaven Bulletin, 40 Brookhaven Avenue

(Name & Phone No. To Call)