



BROOKHAVEN BULLETIN

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Don't Call — Listen!

Will there be a "snow day" at BNL? Or, will driveways have to be shovelled and cars warmed up a few minutes earlier than usual?

The easiest way to find the answer to these questions is simple. Turn on the radio and tune it to one of the stations listed below for the official word. Telephoning the Laboratory should be avoided except as a last resort. The operator simply can't handle all of the calls that flood in whenever the snow starts to pile up.

A Lab closing or delayed opening will be decided on in plenty of time to notify the listed radio stations, and is usually announced early enough to enable employees to dust the snow off their cars and shovel driveways before leaving for work.

BNL attempts, during periods of very bad weather, to adjust the times of opening and closing so as to avoid unreasonable hardship for the majority of employees in getting back and forth to work. Also, there is no loss of pay or vacation time during emergency closings.

When there is doubt in the morning as to whether the Laboratory should open, the weather and traffic conditions are reviewed between 5:00 and 6:30 a.m. and any announcement telephoned to the local radio stations. If it is estimated that the majority of employees can get to work on time or shortly thereafter, without unreasonable hardship, the Laboratory opens on schedule.

Forecasting the weather for Long Island is a problem. Frequently coastal areas are on the edge of snowstorms, causing inaccurate predictions of the snowfall. Also, of course, forecasts can change significantly in a few hours or even be entirely wrong. This sometimes makes a decision reached at 6:00 a.m. appear unwarranted by eight or ten o'clock. Everyone should be alert to changed conditions, and be aware of delays that may be encountered in changing an earlier announcement. On bad weather mornings, many employees not only listen to one of the radio stations listed, but also check with a member of their car pool or a neighboring employee.

Snowfalls sometimes vary widely between the North and South shores, or from East to West; the progress of snow plowing varies between Towns; snowdrifts vary with the locale. These variable and changing conditions create a diversity of difficulties for drivers that vary in degree from place to place. During storms each driver should estimate his own situation by listening to the latest weather forecast, noting the current weather and other conditions, and using his common sense. Whenever driving conditions in the locality appear extraordinarily hazardous, each individual must use his own best judgement about getting out on the road, or, once on the road, continuing the journey.

Snow Announcement Stations

| | AM | FM |
|-------------------------|------|-------|
| WRIV Riverhead | 1390 | - |
| WHRF Riverhead | 1570 | 103.9 |
| WPAC Patchogue | 1580 | 106.1 |
| WALK E. Patchogue | 1370 | 97.5 |
| WLNK Sag Harbor | 1600 | 92.1 |
| WBAB Babylon | 1440 | 102.3 |
| WHLI Hempstead | 1100 | 98.3 |
| WLIX Islip | 540 | - |
| WGSM Huntington Station | 740 | 94.3 |
| WGLI Babylon | 1290 | - |

Negro History Week

A program in commemoration of Negro History Week will be given at Southampton College on Friday, February 11 at 8 p.m. in the Fine Arts Building.

According to Peter Chen, BNL Assistant to the Director for Affirmative Action, and an Executive Board member of the Eastern Long Island Branch, NAACP, an interesting program has been planned.

Guest speaker will be Miss June Shagalloff, National Education Director for the NAACP. A music program will be presented by a local choir, and refreshments will be served. The program is open to the general public.

Winter Still With Us



One snowfall does not a winter make! Even though the weather has been relatively mild so far this year, there is still time for several repeats of last Monday's snowstorm. Remember that the "Great Blizzard of 1888" lasted from March 11 to March 14!

Bernal To Deliver 108th BNL Lecture

Ivan Bernal of BNL's Chemistry Department will deliver the 108th Brookhaven Lecture on Wednesday, February 16 at 8 p.m. in Berkner Hall. The subject of his talk will be "Model Systems for Iron Sulfur Proteins."

Distributed fairly widely in nature is a class of protein molecules which act as electron carriers in biological processes. These



Ivan Bernal

molecules, which are found in plants, bacteria, and more complex living beings, are characterized by the presence of iron-sulfur clusters at the sites of electron exchange. In mammals, these clusters appear to participate actively in the manufacture of steroids.

Because the lack of suitable crystalline material makes it difficult to study these

molecules by standard crystallographic techniques, Dr. Bernal and his colleagues have resorted to studying the crystal structure of smaller molecules containing iron-sulfur clusters of the same composition as the proteins.

Since these smaller molecules are well characterized by a wide variety of other physical methods, comparing the properties of the smaller molecules with those of the protein provide a clue as to which are likely to have cluster systems resembling those of the natural products. Dr. Bernal will highlight his lecture with examples of such comparisons.

Structural measurements of the model system are much more precise than those normally attainable in protein structure determination. Consequently, such measurements can be useful guides to the protein study.

Ivan Bernal was born in Barranquilla, Columbia, South America. He came to the United States to study chemistry and eventually received a Ph.D. from Columbia University. After receiving his degree, he spent a year at Harvard University as a Fellow of the Harvard Corporation.

In 1964 he moved to Long Island as a result of an appointment to the Chemistry Department at SUNY, Stony Brook. Shortly thereafter he became a Research Collaborator at BNL and finally moved to the Chemistry Department at Brookhaven in 1967. In the Chemistry Department he has done research on structure and physical properties of transition metal compounds.

Mr. Bernal is married to the former Constance Crayton of Glens Falls, New York; they live in East Setauket with their daughter Susan.

Eighth Brookhaven Semester Starts



Four of the ten students enrolled in the eighth Brookhaven Semester arrived on Monday to take up residence at the Lab till the end of the Spring term. The students are: (left to right) Paul King, a chemistry junior from Fisk University; Jonny Smith, chemistry senior from Alcorn A&M College; Mondy Raibon, mathematics senior from Prairie View A&M; and James Harris, Chemistry junior from Prairie View A&M.

Four Eagles Here For Short Visit

Four Eagle Scouts from Suffolk County visited at Brookhaven Lab last week as part of the 16th Annual Eagle Scout Recognition Day and Dinner.

Each of the four young men were invited by a staff member of Brookhaven to spend Tuesday afternoon at the Lab and have an "on the job" orientation in a possible future career. After the orientation visit, the scouts and their advisors attended a formal dinner at the Narragansett Inn in Lindenhurst.

James Bischoff, Troop 52, who is thinking of a career as a biochemical engineer, visited Lou Stang of the Department of Applied Science.

Mark Hannaford, Troop 360, who would like to do medical research, was advised by Associate Director Doctor Victor Bond, a former Eagle Scout.

Steven Landau, Troop 349, who has a general interest in atomic energy, spent his time with Steven Kiss of the Physics Department.

Frederick Tinari, Troop 91, whose interest is in electronics, visited with Richard Hedrick of the Accelerator Department.

Among the 90 boys who were honored at the celebration were the sons of at least three other Lab staff members, including Phil Borzi of Supply and Materiel, Vincent O'Leary, Directors' and Frederick Horn, DAS. Philip Borzi visited with a band leader to learn more about a music career, Brian O'Leary talked with a fishery manager about a career in conservation, and Fred Horn visited with a Patchogue veterinarian.

The Boy Scouts of America celebrated the 62nd anniversary of their founding in America on Tuesday, February 8.

Named to URA Council

Gertrude S. Goldhaber, Physics, was elected Trustee-at-Large for a term of three years, by the Council of Presidents of Universities Research Association at their January 28 meeting.

URA was formed in 1965 in order to provide a broad national base for the management of the National Accelerator Laboratory at Batavia. The corporation is governed by a Council of Presidents of the member universities. Six of the 21 trustees are appointed at large; the other 15 represent the member universities.

NFS-AID Grants

The National Science Foundation, through a special program funded by the Agency for International Development, is soliciting proposals from U.S. scientists and engineers to conduct research and teaching programs in developing countries.

The program is intended to (1) enable scientists of developing countries to formulate and conduct research and education programs, (2) establish long term collaborative relations between U.S. and foreign institutions, (3) increase the capability of scientific and technical institutions in developing countries.

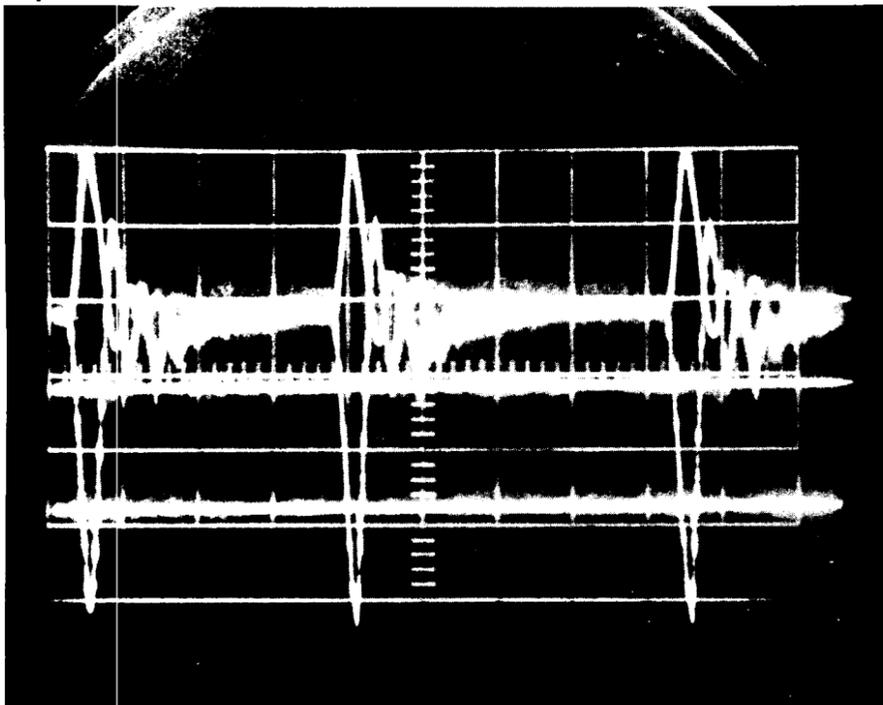
Grants will provide for travel costs and stipends for assignments up to one year. Closing date for submission of proposals is March 15, 1972. For further details, check with Glenn A. Price, Office of Scientific Personnel.

Puleston Painting Won By Allan Wood, DAS

Allan Wood, Department of Applied Science, was the winner of an original watercolor painting by Dennis Puleston, retired Information Division head.

The painting of a red eye vireo was raffled off for the benefit of the Moriches Bay Audubon Society for the Nature Center at Kaler's Pond. \$727 was raised for the project which has the support of many employees of Brookhaven National Laboratory.

Triple Pulse For 30-Inch Chamber



Oscilloscope picture of piston motion (upper trace) and chamber fluid pressure (lower trace) when the chamber is filled with deuterium. Piston for the chamber has a 0.56-inch stroke which produces a pressure drop of 30 pounds per square inch in the deuterium.

30-Inch Bubble Chamber Triples Picture Rate

In the weeks prior to the AGS Christmas shutdown, the 30-inch Bubble Chamber was operated routinely with the particle beam to it in a single-pulse, double-pulse, and finally a triple-pulse mode at the AGS.

In the triple-pulse mode of operation, the chamber is expanded three times during every AGS cycle and three sets of pictures of particle tracks in the chamber are taken whenever beam is available from the AGS. The picture production rate of the chamber is increased dramatically with this mode of operation.

On December 20 and 21, with the AGS operating at a 1.8 second cycling rate, a new high of 85,323 pictures in a 24 hour period was achieved from a total of 89,931 beam pulses delivered to the chamber. This number surpassed the old record set in the double-pulse mode by the now retired 31-inch chamber.

In the picture of the oscilloscope screen,

the motion of the bubble chamber's expansion system piston is shown in the upper trace and the corresponding pressure pulses in the chamber fluid (in this case deuterium) are shown in the lower trace. Each horizontal division on the screen is 50 milliseconds apart. These three pulses are repeated for every AGS cycle and a set of pictures is taken at each pulse if the particle beam has entered the chamber.

An element of drama was introduced at noon on December 21 when, with 23,113 pictures to go to reach the approved total of 300,000 pictures for the experiment being run, the chamber was slowed to a double-pulse operation so that more beam from the AGS could be made available to other experimenters. The 300,000 picture total was passed shortly before midnight on December 21 and an additional 4,637 pictures were taken before the AGS shutdown at 2:00 a.m.

N.Y. State Withholding Change Effective February 1, 1972

Weekly employees receiving their payroll checks on February 3, 1972 were the first to feel the impact of the revised New York State Withholding Tables. For many, the adjustment was more than expected. Listed below is an explanation of the changes reflected in the new withholding tables and several examples comparing the 1971 tax tables to the revised 1972 withholding tables:

- The tables reflect passage by the 1971 Legislature of a 2½% tax surcharge. This essentially increases your 1972 tax by 2½% over what it had been in 1971.
- In addition, the statutory tax credits formerly allowed in the amount of \$12.50 and \$25.00 have been eliminated.
- A new 15% tax bracket on taxable income in excess of \$25,000 has been added.

The former maximum had been 14% on taxable income in excess of \$23,000.

- Perhaps the largest single factor contributing to increased withholding is the revision to the withholding percentages. The 1971 withholding percentages graduated from 0 to 12.18%; the revised withholding percentages increase from 0 to 15.375%. The impact of this change will affect most employees.

- The \$650 New York State exemption allowance will remain the same for 1972. (Federal increased from \$675 to \$750 for 1972.)

Any questions regarding withholding taxes should be directed to B. McAlary, Ext. 7482.

Several examples comparing the 1971 tables to the 1972 tables follow:

New York State Withholding Table

| Wages at least | | Exemptions claimed 1971 | | | | Exemptions claimed Revised 1972 | | | |
|----------------|-------|--------------------------------|---------|--------|--------|------------------------------------|---------|---------|---------|
| less than | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Weekly | | 1971 | | | | Revised 1972 | | | |
| \$100 | \$105 | \$1.80 | \$1.30 | \$.90 | \$.50 | \$2.60 | \$2.10 | \$1.60 | \$1.20 |
| 150 | 160 | 3.90 | 3.30 | 2.70 | 2.20 | 5.10 | 4.40 | 3.80 | 3.10 |
| 180 | 190 | 5.40 | 4.60 | 4.00 | 3.40 | 6.60 | 5.90 | 5.10 | 4.50 |
| 220 | 230 | 7.60 | 6.70 | 6.00 | 5.30 | 9.00 | 8.10 | 7.20 | 6.40 |
| 250 | 260 | 9.40 | 8.50 | 7.70 | 6.80 | 10.90 | 9.90 | 9.00 | 8.10 |
| 290 | 300 | 12.20 | 11.20 | 10.20 | 9.30 | 14.00 | 12.90 | 11.90 | 10.90 |
| Monthly | | 1971 | | | | Revised 1972 | | | |
| \$600 | \$640 | \$14.70 | \$12.00 | \$9.70 | \$7.50 | \$19.60 | \$16.90 | \$14.10 | \$11.80 |
| 800 | 840 | 24.20 | 20.90 | 18.00 | 15.30 | 29.70 | 26.40 | 23.00 | 20.10 |
| 1200 | 1240 | 48.50 | 44.20 | 40.10 | 36.30 | 55.60 | 51.20 | 46.70 | 42.60 |
| 1600 | 1640 | 80.10 | 74.70 | 69.40 | 64.50 | 94.70 | 88.70 | 83.20 | 77.60 |
| 2000 | 2040 | 119.00 | 112.50 | 106.10 | 100.00 | 143.60 | 136.40 | 129.20 | 122.60 |
| 2480 | 2520 | 174.90 | 167.30 | 159.80 | 152.20 | 214.40 | 206.10 | 197.70 | 189.40 |
| 2520 | over | + 12.18% of excess over \$2520 | | | | Plus 15.375% of excess over \$2520 | | | |

Lab Family Has Reason To Be Proud

Mr. and Mrs. William Wyche, both employees of Brookhaven National Laboratory, have reason to be proud these days since receiving news that their son, James, has been awarded a \$20,000 grant for cancer research.

Dr. James Wyche, who was a Biology Research Associate at Brookhaven in 1965,



James H. Wyche

left Brookhaven to work with Dr. M. Demerec at C.W. Post in 1966. After Dr. Demerec's death, Wyche entered Johns Hopkins University for graduate work in bacterial genetics. He obtained his PhD there last year, and joined the Department of Biochemistry at the University of California at Berkeley.

Dr. Wyche's present area of study involves methods of regulation and control of the biosynthesis - natural manufacture - of the amino acid histidine by the microorganism "Salmonella typhimurium." Amino acids are the chemical building blocks of which all living tissue is built, as they are linked together in long molecular chains of protein. And the study of how histidine - one of the most common amino acids - is manufactured in a simple organism like Salmonella might someday suggest ways to control the manufacture of unwanted cells in a cancer patient.



Fannie and William Wyche, proud parents of Jimmy Wyche, who was recently awarded a \$20,000 grant for cancer research. Mrs. Wyche is a scanner in the Physics Department, and her husband is a painter in Plant Engineering and Planning.

Dr. Wyche is married to the former Karen Fraser of Long Island, and the couple are parents to three children, the youngest a son only a few weeks old.

Dr. Wyche's mother is a scanner in the Physics Department, and his father is a painter in Plant Engineering and Planning. Mrs. Wyche was awarded her Ten Year Service pin on January 15. Her husband has been at Brookhaven for 11 years.

In addition to James, there are four other Wyche children, three girls and a boy, all either going to or graduated from college. James, the oldest, still holds the record for the highest degree attained.

Mr. and Mrs. Wyche plan to visit their son in California this summer, and get their first look at their new grandson.

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Arrivals & Departures

Arrivals

- Henry de la Rosa Mech. Engrg.
- Shih-Yung Hsieh Accelerator
- Paul Le Doux Mech. Engrg.
- Bernard C. Sordat Medical
- Matesh N. Varma Physics

Departures

- Edwin I. Oakes P.E.P.

Marina Whitman Appointed To Economic Council

Marina von Neumann Whitman, daughter of Mariette Kuper, has been appointed to the President's Council of Economic Advisors.



Dr. Whitman, 36, an economist at the University of Pittsburgh, was named last October to the Price Commission as its only woman member. Her appointment to the top Government economic council was confirmed by the Senate with no opposition.

Mrs. Whitman and her husband will both take leave of absence from the University of Pittsburgh, where Dr. Robert Whitman is chairman of the English Department. They and their two children will move to Washington.

Selected Reading

- Science 175, January 28, 1972
NSF: A look ahead. W.D. McElroy. 361
'73 budget: Administration bets on applied science. 389-92
NSF: A boost for relevance. 390
- BioScience 22, January 1972
Mankind and civilization at another crossroad: In balance with nature. A biological myth. N.E. Borlaug. 41-4
- Am. Scientist 60, January-February 1972
Scientists: The loyal opposition. M. Kranzberg. 20-3
- Atom, No. 182, December 1971
Technical spin-off from nuclear research and development. W.C. Marshall. 285-96
- The Columbia Forum 1, Winter 1971
Report of the Task Force on Biological Ecology appointed by the Presidential Commission to Study the Conservation of Human Resources Act. E. Gilson. 19-22

FAS To Meet Friday

The Brookhaven Chapter of the Federation of American Scientists will meet in Room "A" of the Cafeteria at lunchtime on Friday, February 11th. Martin Rosenblum and Bill Cohen will present proposals for FAS consideration related to national science policy, federal support of science, and the utilization of the national laboratories. All interested BNL'ers are invited to participate in the subsequent discussion.

Here and There

Claire Lamberti

Stephen Felberg (DAS) visited the University of Texas, Austin on January 19-21, and presented a talk on digital simulation techniques and cyclic voltammetry of cyanochromium complexes.

William S. Hillman (Biology) recently presented a seminar on "Photoperiodic Timing in Lemna" at Queen Mary College, London, England.

Powell Richards and **Richard Eckelman** (both DAS) participated in a refresher course in nuclear medicine sponsored by the Greater New York Chapter of the Society of Nuclear Medicine, held at the New York Hilton Hotel on January 28-30. **Powell Richards** arranged a section on radiopharmaceuticals as a member of the Program Committee and presented two lectures; **William Eckelman** also presented a lecture in the radiopharmaceuticals section.

Michael J. Moody joined the Biology Department on January 1 as Associate Biophysicist. He will be working on x-ray and neutron diffraction structural analysis of large biological complexes such as membranes and viruses.

Powell Richards (DAS) attended a Trustees Meeting of the Society of Nuclear Medicine held in Denver, Colorado on January 21-23.

Jerry A. Rapp joined the Biology Department on January 1 as Research Associate. He will work with **Geoffrey Hind** who has a National Science Foundation project grant (Role of Cytochromes in Photosynthesis).

Melvin D. Epp joined the Biology Department on January 3 as Research Collaborator. He is the recipient of a Damon Runyon Fellowship and will work with **Harold H. Smith** on mechanism for genetic control of differentiation of plant tissue genetically conditioned to spontaneous tumor formation.

Telephone Rates Increased

Significant reductions in telephone equipment at the Laboratory have very nearly offset the 12.8% increases in rental and usage rates effected by the Telephone Company in July 1971. But that is not the whole story. Rate increases of 8½% in February 1970, 12.8% in July 1971, and 9% in February 1972 add up to a whopping 30% increase in an area where BNL spends over \$400,000 annually.

Of particular interest is the fact that the 12.8% increase was an average increase. Some rental rates remained unchanged while installation charges, amongst others, doubled. Installation of a "C" set (a no button telephone) now costs \$25. To move it from one location to another, 10 feet or 1,000 feet, costs another \$25. Good planning and avoidance of multiple moves will greatly reduce the \$10,000 now being spent for installations annually.

The New York Telephone Company implemented a new service in June of 1971 called Traffic Service Position System or T.S.P.S. This system permits direct dialing of Person to Person, Collect and Credit Card calls. Our billing indicates that an increasing number of personal long distance calls are being placed using this service at the Laboratory's expense. Therefore, commencing on February 14, 1972 it will no longer be possible to reach a New York Telephone Company operator directly. All long distance calls, other than FTS, must go through the Laboratory switchboard.

It will still be possible to place personal long distance calls on a Collect, Third Party Charge or Credit Card basis after the BNL operator connects the caller with the New York Telephone Company operator. The BNL operator will also continue to place personal calls for those who cannot use Collect, Third Party Charge, or a Credit Card. This procedure involves personal billing and a service charge.

Everyone can help to insure that the official business of the Laboratory is adequately provided for while holding costs to a minimum. The BNL telephone system exists for the conduct of Official Government Business. Use or appropriation of Government property or service for personal business is prohibited by law. Violation can result in suspension or dismissal.

Happy New Year

Goodbye to the year of the pig; Hello to the year of the rat!

On February 14, the year 4670 will start for Chinese people. Chinese years are counted in lunar cycles, some years having 13 lunar months. The naming of the years is in cycles of 60. While American custom is to celebrate the passing of the old year, the Chinese celebrate the start of the new year.

Cooking Exchange Today

French cooking at its best will be featured at the next Cooking Exchange session. The date is Thursday, February 10, 3 to 5 p.m. in the Recreation Building in the apartment area. There is a charge of 75¢ per session for each person attending to cover the cost of recipes and for the babysitters.

If you need additional information, please call Terri Pittenger at 286-9471.

Jazz At The Center

The Isotope Stompers, a jazz group formed from staff members and friends of Brookhaven National Laboratory, play for your cocktail hour enjoyment each Monday evening at the Brookhaven Center. The music starts at 5:30 and continues till 8 p.m. The bar at the Center opens at 5 p.m.

Stony Brook Events

A film and discussion of avant garde theater, a discussion of Cuba's foreign policy, and a jazz concert are among events open to the public this week at the State University of New York at Stony Brook.

Friday, February 11

The Department of Theatre Arts and the Center for Contemporary Arts and Letters present films of two avant garde theater productions, "The Serpent" by the Open Theater, and "Akropolis" by Jerry Grotowski's Polish Laboratory Theater at 7 p.m. in the Stony Brook Union Theater. A discussion of the films by Associate Professor of Theatre Arts William Bruehl follows the showings. Admission, 50¢

Sculpture by Christopher County is displayed in the Stony Brook Union Art Gallery from 10 a.m. to 5 p.m., thru Friday February 18.

Monday, February 14

Associate Professor of History Herman Lebovics continues his lecture series on major developments in modern history, "From Marxism to the 20th Century," at 5 p.m. in Lecture Center Room 103.

"Logic" is the topic in Philosopher David Benfield's continuing series on ancient and modern techniques in logical reasoning, at 5 p.m. in Lecture Center Room 101.

Tuesday February 15

The International Film and Lecture Series continues with a discussion on "Cuba's New Foreign Policy" by Professor Raymond W. Duncan of the State University College at Brockport, at 7:30 p.m. in the International Residential College (Stage XII B Dormitory) Upstairs Lounge.

Professor Francis Palmer, Provost for Educational Research and Development, continues his lecture series, "Human Development: The Preschool Years" at 5 p.m. in Lecture Center Room 103.

Professor of Art Leopold Castedo continues his discussion of contemporary Latin American life styles, focusing on the intellectual and artistic forms, in his lecture series, "Latin American Cultural Development," at 5 p.m. in Room 150 of the Light Engineering Building.

Professor of English David Erdman continues his discussion of poet William Blake, at 5 p.m. in Room 146 of Social Science Building "A."

Wednesday, February 16

Professor of English Martin Stevens continues his lecture series on Chaucer with a discussion of "The Miller and the Reeve" from "Canterbury Tales," at 5 p.m. in Room 135 of Social Science Building "A."

Thursday, February 17

The Center for Continuing Education's program in the cinema continues with a showing of Jean-Luc Godard's "Weekend," with Mirielle Darc, Jean Yanne and Jean-Pierre Kalfon, at 8:30 p.m. in Room 108 of the Lecture Center.

Distinguished Professor of English Alfred Kazin continues his lectures on "20th Century Literature" at 5 p.m. in Room 102 of the Light Engineering Building.

A Crafts Bazaar sale of handiwork by students and the community is open from 11 a.m. to 4 p.m. in the Stony Brook Union Lobby.

Friday, February 18

The Music Department's Professional Artists Series offers a recital by violinist Jack Kreiselman, Performing Artist in Residence at Stony Brook, accompanied by Roger Boardman, piano; Jean Depouy, viola; and Timothy Eddy, violoncello. Pieces to be performed include works by Poulenc, Mozart and Brahms. The recital begins at 8:30 p.m. in the Stony Brook Union Auditorium. Donation, \$1.50.

Spring Season Starts at Pool

Spring is fast approaching and with that comes the start of a new season at the Swimming Pool. So prepare now to have your season pass ready to use on the very first day.

Season passes may now be purchased at the Recreation Office (9:00 a.m. - 1:00 p.m.) or at the Pool Office during its open hours beginning February 10, 1972.

The following schedule of rates and times will be in effect for the Spring Season which begins February 12th and continues through June 16th.

Schedule

Open Weekdays Monday through Friday 12:00 noon - 1:30 p.m. Employees Only (Must have Season Pass).

5:00 p.m. - 9:30 p.m. Employees/Family/Visitors.

Rates

| | |
|---------------------------|---------|
| Season Pass | |
| Employee or Family Member | \$ 5.00 |
| Family (Same Household) | \$10.00 |
| Daily Single Admission | |
| Employee or Family Member | 50¢ |
| Visitor | 75¢ |

(No Single Admissions 12 noon - 1:30 p.m.)

Radio Club Meeting

The regular monthly meeting of the Radio Club will be held at 8:00 p.m., Thursday, February 10, at the Recreation Hall.

Bowling News

Grace Fales

Pink League

Lily Lambeck of the Spares made a spectacular conversion of the 6-7 split. Marge Stoeckel, 485 and Grace Fales, 488 held their own, but everyone else in the league seemed to be having trouble making consistent spares and strikes. Oh well, remember this girls, "Bowling is fun."

Green League

200's for the night were: J. Scesny 214/222/621 series, J. Cain 213, N. Anderson 209. The Sandbaggers remained on top, finishing with a 24 win and 4 loss record, after 4 nights of bowling. "When you're hot, you're hot," right men?

Black and Blue League

Although we had almost a perfect attendance, it seemed as though there were only 3 people bowling. Old consistent Ben Belligan of the AR's had a 203/190/535. Dick Murgatroyd, the Cellar Dweller, a 203, and that Caisey Cat Helen kept face for the distaff side with a 168/178/483.

Red League

Neutrons: R. Skelton 231. Old Timers: W. Reams 200. Phoubars: J. Ferrante 203.

Slo-Break Basketball

by Jack Brennan

The Knacks opened up the 2nd half by beating the Tandems 48-47. The Tandems had a chance to tie the game with 3 seconds left on a one and one four shot, but the shot was missed. Ed Gill was hot for the Knacks as he poured in 26 points. The Tandem scorers were led by Burleigh James with 18 points, Leroy James with 12 points and Bob Rowley with 10 points.

The AEC remained unbeaten beating the undermanned Dirty Dozen 38-28. Tim Henry with 12 points and Bob Casey with 11 points were the AEC high point men. Red Carsten had 12 points for the Dozen.

Medical broke into the win column by beating Biology 37-34. Darrel Joel 13 points and Doug Turner 10 points were Medical's high scorers. Biology high men were Nick Combatti with 14 and Bill Studier with 10. Personnel beat AMD 49-27 as Bob Eisner and Ed Taylor of Personnel were high men with 13 and 12 points respectively.

Brookhaven League

| | W | L |
|-------------|---|---|
| AEC | 1 | 0 |
| Knacks | 1 | 0 |
| Dirty Dozen | 0 | 1 |
| Tandems | 0 | 1 |

National League

| | | |
|-----------|---|---|
| Medical | 1 | 0 |
| Personnel | 1 | 0 |
| AMD | 0 | 1 |
| Biology | 0 | 1 |

BERA Election Today

Ballots are being mailed today, and are due back at the Recreation Office no later than February 18.

The candidates are as follows:

George Oldham (Rigger) Plant Engineering and Planning

Jerome Weiss (Chemist) Applied Science

Edwin Taylor (Technician) Applied Math.

Patricia Towey (Executive Secretary)

Physics

John May (Design Engineer) Accelerator

Charles Flood (Associate Health Physicist)

Health Physics & Safety

Volleyball News

Odelli Ozer

The majority of the ten games played in the Mixed League last week were very close and quite exciting. The Gotcha's, however, by again winning all three of their games seem to be pulling ahead of the rest of the League. The Active Sites were finally able to snap their losing streak by winning two of their three games including one against the high riding Boomerangs, the only other team to win two or more games. The Jets, Spikers and Trolls had one win each against three losses.

In the Men's League, the Cool Tools, winners of the first half, had to play two games back to back, both without the services of their star spiker Don Strayer (out with a broken thumb). Led by Lou Snead, Jack Crow and Mas Suenega, they defeated Jerry Levine's Atom Spikers 3-0 but had trouble in the second game in defeating a tenacious Chemistry team 2-1. In other games AEC turned back Particle Detectors 3-0, while the Spikers opened their second half with a 3-0 win over the Set Ups in spite of sloppy play.

On February 3, the league standings are as follows:

Men's League

| | W | L |
|-------------------|---|---|
| Spikers | 3 | 0 |
| Cool Tools | 5 | 1 |
| AEC | 3 | 3 |
| Atom Spikers | 3 | 3 |
| Set Ups | 3 | 3 |
| Chemistry | 1 | 2 |
| Particle Detector | 0 | 6 |

Mixed League

| | | |
|--------------|---|---|
| Gotcha's | 9 | 0 |
| Boomerangs | 7 | 3 |
| Jets | 4 | 5 |
| Spikers | 3 | 6 |
| Trolls | 2 | 5 |
| Active Sites | 2 | 8 |

Service Awards

October - November - December

Twenty Year

Colombo, Peter Applied Science
 Dienes, George J. Physics
 Flynn, William A. Security
 Meyer, Irving T. Security
 Schroeder, Dorothy G. Director's Off.
 Singer, Irving A. Instr. Health
 Sowiak, Nicolas Plant E&P
 Weneser, Joseph Physics
 Wirsing, Edward Applied Science

Jones, Robert H. Applied Science
 Scheuerer, Thomas B. Accelerator
 Schwarz, Harold A. Chemistry

Sautter, Martin Reactor

Ten Year

Bulla, Rita Staff Services
 Eld, Carl B. Accelerator
 Gill, Edward G. Accelerator
 Hulliger, Robert S. Accelerator
 Mayeski, Joseph T. Accelerator
 Orehek, Ladislav J. Accelerator
 Thomas, Manfred G. Accelerator
 Timm, Franklin D. Accelerator

Brady, David R. Accelerator
 Erhardt, Edward T. Plant E&P
 Fairchild, Ralph G. Medical
 Fulcher, Alice R. Physics
 Halstensen, Erik Central Shops
 Neber, Arden B. Personnel
 Scharpeger, John H. Supply & Mat.
 Waldbauer, George C. Supply & Mat.
 Whitehead, Janet C. Personnel

Anderson, Nils L. Accelerator
 Carl, Irma Plant E&P
 Casswell, William H. Accelerator
 Davids, Nelson C. Accelerator
 Johnson, Robert Central Shops
 Papavasiliou, Paul S. Medical
 Rhodus, Hugh S. Plant E&P
 Schwaner, Edward T. Accelerator
 Stenby, George O., Jr. Accelerator

