

BULLETIN BOARD

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Wives to Share Laboratory Welcome

Mrs. Norma Chernick, recently elected chairman of the Hospitality Committee of Brookhaven National Laboratory, has announced a new procedure for welcoming the wives of all new employees at the Laboratory.

"The procedure," as outlined by Mrs. Chernick, "calls for having a welcoming tea every six months that would include all newcomers to the Laboratory family for that period."

In addition, Mrs. Chernick announced that wives of all employees, would be welcomed at the tea, but would not be individually invited. Women who work at the Laboratory are invited to join the group at p.m.

The first All-Lab tea will be held at the Brookhaven Center from 3 to 6 p.m. on May 16, 1967.

Hostesses for the tea will be the wives of present staff members who serve as area representatives. The area representatives will attend each tea to answer newcomers' questions and to help, in every way possible, to make their adjustment easy. A list of the representatives will be published in another issue of the Bulletin Board.

Baby-sitting problems will be minimized by a panel of six competent sitters who will supervise the small fry in the Gymnasium while the mothers are relaxing at the Center.

BNL-OCAW Contract Agreement Reached

Contract negotiations between BNL and the Oil, Chemical and Atomic Workers (OCAW), representing 29 Lab employees, were successfully concluded on April 13, 1967. The final negotiation session between the BNL representatives, headed by Joseph Washburne, Personnel Manager, and the OCAW representatives, headed by William Keating, began late in the afternoon. Later in the evening, the terms of agreement were presented to the OCAW membership and ratified.

The new contract, effective April 17, 1967, provides for a wage increase of approximately 5%. The new contract is for an indefinite period, with a 90-day notice required for re-opening. This is a continuation of the previous type of contract.

The union has agreed to withdraw unfair labor practice charges filed with the NLRB earlier this year.

Vineyard to Dedicate Missouri U. Building

On April 22, BNL Associate Director, George H. Vineyard will speak at the dedication of the new Physics Building of the University of Missouri.

The program, which will be held in the Lecture Room of the new building, will be moderated by L. V. Holroyd, of the Physics Department. At a luncheon after the formal ceremony, the speaker will be Dale R. Corson, Provost of Cornell University.

Dr. Vineyard, a former faculty member, will title his address "The Relevance of Physics." The \$2.5 million building is located on the Columbia campus.

AUI Scholarships Awarded



Shown are the AUI Trustee Scholarship winners who attended a luncheon presentation ceremony at the Brookhaven Center. The girls are: (left to right) Patricia Reilly, Sherrie Smith, and Susan Roush. Behind them are: (let to right) David Bigeleisen, Thomas Stehn, Thomas Wiswall, Roger Cottingham, and David Hough.

\$900 Each Awarded To Ten Students

Ten AUI Trustee scholarships for high school seniors who are children of BNL employees were awarded by Dr. Maurice Goldhaber on April 17. The scholarships are for \$900 per year per student at the schools of their choice and are renewable each year of study towards a bachelor's degree.

The winners are as follows:

David Bigeleisen, son of Jacob Bigeleisen of the Chemistry Department, lives in Bayport and attends the James Wilson Young H.S. He plans to attend Cornell University.

Roger Cottingham of Center Moriches is the son of James G. Cottingham of Accelerator Department. Roger is attending the Center Moriches H.S. and plans to pursue his degree at Colby College.

David Hough of Huntington attends the Huntington H.S. He is the son of Paul V. Hough of the Physics Department, and will study at Swarthmore College.

Patricia Reilly is the daughter of Robert F. Reilly of Plant Maintenance. She lives in Northport and attends the Kings Park H.H. She plans to attend SUNY, Stony Brook.

John Robertson, son of James S. Robertson of the Medical Department, lives in East Setauket, attends the Earl L. Vandermeulen H.S., and will start his studies at Harvard University this September.

Susan Roush, of East Patchogue and the Bellport Senior H.S., is the daughter of Bobbie M. Roush of Photography and Graphic Arts. She plans to attend Syracuse University.

Daniel Shreeve, son of Walton W. Shreeve of the Medical Department, who is on professional leave to the Department of Endocrinology and Metabolism at Karolinska Hospital in Sweden. He plans to attend Cornell University in the Fall. He is

presently attending Viggbyholmsskolan in Stockholm.

Sherrie Smith, daughter of Joseph E. Smith of the Physics Department, lives in Patchogue and attends the Patchogue H.S. She will pursue her studies at Vassar College.

Thomas Stehn is the son of a member of the Nuclear Engineering Department, John R. Stehn. Thomas lives in Port Jefferson and attends the Earl L. Vandermeulen H.S. He will begin his college career this September at Carleton College.

Thomas Wiswall of Brookhaven is the son of Richard H. Wiswall of the Nuclear Engineering Department. He will graduate from the Bellport Senior H.S. this Spring and in the Fall will begin his college studies at Princeton University.

Scholarship winners who maintain proficiency in the studies and meet the annual requirements, will receive \$900 for each year of normal college attendance until a bachelor's degree is earned. Proof of satisfactory academic progress must be submitted each year. The school attended administers the award, which can be applied to any normal academic expense such as tuition, books, fees, etc. Active duty with the armed forces, accidents, sickness, etc. are taken into consideration if they result in interruption of the student's normal attendance at school.

To qualify for a scholarship, the applicant must be a high school senior and the child of a full-time employee who has been with the Laboratory since January 1, 1966. The sons and daughters of retired or deceased employees are also eligible.

The winners are selected by an independent committee of the Educational Testing Service of Princeton, New Jersey. This is the same organization that administers the Scholastic Aptitude Test (SAT), commonly known as the College Entrance Examination Board exams taken by high school students planning on going to college.

BNL Staff Members On Temporary Duty With Atom Exhibit

Dennis Puleston, Head of the Information Division, will leave today for a seven week visit to Ankara, Turkey, where he will be Director of the Technical Information Center for the AEC sponsored "Atoms in Action" Science Center.

This exhibit, managed by Burrell S. Wood of the AEC, will be housed in a double-domed, air supported, vinyl structure, with an area of 22,000 square feet. Inside will be a research library, a seminar room, and a laboratory section equipped with a Lockheed 10 kw pool-type research and training reactor. There will also be a 2000-curie gamma pool, which will be used for both demonstration and experimental work.

The public section will be staffed by Turkish students who will act as guides to take groups through the exhibit. The reactor and the gamma pool can be viewed through a plexiglass window. An important part of the program will be three-hour seminars run for secondary school students and their teachers.

The purpose of the exhibit, which is held with the cooperation of the Turkish AEC and by invitation from the Turkish government, is to foster the growth of nuclear knowledge for working scientists and engineers, managers, students, and the general public. Previous exhibits have created widespread public interest and effort in the peaceful uses of nuclear energy.

Don Metz, Nuclear Engineering, will join the staff on April 26, and devote three weeks to lectures and seminars at universities and research institutions in the surrounding area. "One important job will be to carry the word on the exhibit to Istanbul," said Metz. "We must make the people in the larger city be aware of the Ankara project, and hope they will also participate."

Dennis Puleston, who has done similar work at exhibits in Bangkok, Thailand, and in Utrecht, The Netherlands, said "Because of the tight schedules, small staff, and the great interest, it will be a seven-day-a-week job. In Utrecht, we were happy about the marriage of Princess Beatrix because the exhibit and everything else shut down for the day of the wedding."

(continued on page 2)

Lab People Featured



Pictures for a brochure on the benefits of Atomic Energy to New York State Residents are being made at the Lab by a team from the New York State Office of Atomic and Space Development. Shown at HIRDL are (left to right) Photographer Jay Seymour, taking a photograph of Len Galanter, Senior Radiation Engineer and Belmont Sylvester, Technical Specialist.

Atom Exhibit (con't)

After the exhibit closes in Ankara, Puleston will visit Iran where he will talk to some of the local people and try to determine what fields of interest should be emphasized when the exhibit moves to Tehran six months later. This information will then be relayed to those people who will be setting up in the new location.

Since the start of the program in 1958 more than 6 million people have visited the exhibit in 25 countries all over the world.

Stanford Mathematician To Speak at Stony Brook

Dr. Donald C. Spencer, Chairman of the Mathematics Department at Stanford University, will give a colloquium at State University at Stony Brook on Friday, April 21. The title of his talk will be "Systems of Partial Differential Equations - Some Problems and Results." The colloquium will be at 5:00 p.m. in the Physics Building, Room 145. Coffee will be served at 4:30 p.m.

Brubeck Group Homebodies

Dave Brubeck, the world-renowned jazz pianist who will be appearing at the BNL Theatre on May 6th, has organized one of the most exciting groups in the history of jazz.

However, Brubeck proudly heads another jazz group, the All-Brubeck Quintet, which performs almost as often as the more famous Brubeck Quartet. In the Quintet with Dave are Darius Brubeck (age 15), Michael Brubeck (age 13), Christopher Brubeck (age 10), and Daniel Brubeck (age 7), four of the six sturdy Brubeck children. Catherine (age 9), is a talented pianist, but she prefers her ballet solos to "jamming" with



the boys. However, she often gives her dance interpretation to the swinging sounds of the All-Brubeck Quintet. The audience for these jam sessions and dance recitals always includes Iola (Mrs. Dave) Brubeck and usually includes several friends and neighbors, along with Charles Matthew Brubeck, one year old.

Dave believes that children should not be confined to one instrument. He believes a child should ordinarily begin with the piano, then try the drums, and finally branch out to another instrument - whatever instrument he chooses.

The success of this theory is best evidenced by the versatility of the Quintet members. Darius plays the piano, trumpet and drums. Michael plays the alto sax, drums and piano. Christopher plays bass, piano and drums, with Daniel being the permanent drummer of the group. Dan and Catherine also play the piano.

Tickets are still available for the Brubeck concert at the Recreation Office.

The curtain is at 9 p.m. SHARP.

Driving Course To Be Repeated

The National Safety Council's "Defensive Driving Course" was presented to BNL employees this past March by William Barnes of the Security Office. The response was so enthusiastic that many had to be turned away, with the assurance that the course would be repeated in the near future.

To fulfill this promise, the course is scheduled for Wednesday, May 3 through Friday, May 12, from 10 to 11 each morning at 2 Center Street. The course consists of eight one-hour sessions, each session including a film and covering different techniques of escaping traffic accidents, even the type caused by "the other guy."

The course takes on added interest at this time as on May 23, CBS-TV with Walter Cronkite will put on a new 1967 "National Drivers Test," designed by the National Safety Council and utilizing material from the Defensive Driving Course.

Any Laboratory employee, associate, or guest who can spare one hour each morning for eight days is welcome to join the class.

Completion cards from the National Safety Council will be issued at the close of the course. To register, call William Barnes at Ext. 2392 or 2393 before Monday, May 1.

Nelson Named To Liaison Post

Thomas Nelson of the Supply & Materiel Division has been assigned the responsibility of coordinating all aspects of the material management program as they relate to the Accelerator Department and the S. & M. Division. Acting as liaison between the two operations, he will be responsible for the administration and supervision of S. & M. personnel assigned to the Accelerator Department. Although Mr. Nelson will be in-residence at the A.G.S., he continues on S. & M.'s Divisional Staff.

Robert Hannel has been appointed to the Divisional Staff of the Supply & Materiel Division. Hannel will be working with P.L. Borzi, S. & M.'s Assistant Manager.

Dr. John C. Bugher to Receive AEC Citation

Glenn T. Seaborg, Chairman of the AEC announced that John C. Bugher, distinguished scientist-administrator and one of the country's leading authorities on the pathological effects of atomic radiation, has been named to receive the Atomic Energy Commission Citation.

Dr. Seaborg will present the citation, accompanied by a symbolic medallion, to Dr. Bugher on May 1. The ceremony will take place at the Commission's Washington, D.C., office.

Yankee Seats Fabulous!

That was the comment employees made about BERA Box Seats after visiting Yankee Stadium last week. The seats are excellently located, four behind First Base and four just to the left of Home Plate. You would almost have to join the team to do much better. Don't wait - pick your game now. Complete schedules as well as the tickets can be obtained at the Recreation Office daily from 9:00 a.m. to 1:00 p.m.

Yankee Baseball Tickets available for April 28-30 California; May 12-13 Baltimore; plus many other dates.

Met Baseball Tickets available for May 2-3-4 San Francisco; May 5-7 Houston; plus many other dates.

Notes on Prof. Gold's Brookhaven Lecture

Editor's Note: The *Bulletin Board* is indebted to Allen Thorndike for this review of the Brookhaven Lecture presented by Professor Thomas Gold, on April 5, 1967.

In general, it is believed that the moon is made of material with a chemical composition similar to that of the earth. Both may well have been formed from smaller bodies circulating around the sun.

Because the moon is smaller, its interior is at a much lower pressure and temperature than the earth, and there is no evidence that it has a liquid core. Its density is about the same as that of the exterior part of the earth, or "mantle."

Since the moon has no atmosphere, its surface has not been subject to erosion by wind and water, deposition of sedimentary rocks and other complex geological developments. Past history may therefore be recorded much more clearly and simply on the moon. Because of this difference the mechanical properties of the lunar surface may be very different from those of the earth, even though chemical constituents are similar. One obvious difference is the lack of oceans on the moon.

Optical and radar observations of the moon show that the surface becomes extremely cold when not illuminated by the sun. This indicates that the surface layer is a good thermal insulator. It might be a fine powder generated by the erosive impact of very small meteorites. Professor Gold showed photographs of layers of fine powders prepared in the laboratory, which looked a great deal like the surface of the moon. At any depth the lunar material would be solid, but presumably crunchy and not very hard.

Radar reflections show that the surface has small irregularities, perhaps an inch in dimension, but tends to be pretty smooth on a larger scale, except for major craters or chunks of debris thrown out of them.

Professor Gold showed a large number of Surveyor photographs, which seemed to indicate that this general description is correct. The feet of the Surveyor vehicle are embedded a few inches in the surface in a way that seems consistent, but the photographs do not prove just what kind of surface it is. Photographs of a large crater show a very uniform material with no evidence of volcanic or geological formations similar to those on earth.

The lunar surface is remarkably flat up to the chunks of material (presumably thrown out of craters) that are embedded in it. This implies that the surface is in some local sense "fluidized." Gold proposed that the electrostatic charges on the dust might cause it to be transported and deposited very evenly.

The question of water evolved from the lunar interior was brought up. Gold pointed out that the moon is cold just below the surface and that water would be frozen there in a permafrost condition. There seemed to be no direct evidence of such water at present. —Allen Thorndike

Sale of Office Furniture

Bids will be received for the sale of a large quantity of office furniture to be sold in one lot. The items, which consist of desks, bookcases, map files etc. can be inspected in warehouse T-87 from April 24 through April 28.

Bid openings for the sale, which will be conducted by the General Services Administration, will be held on May 2, 1967. Further details may be had by calling Extension 2509 or 2704.

Letters To The Editor

Letters should be less than 200 words, bear the writer's signature and life number, and indicate if the writer desires to have his name withheld from the published letter.

Note: An unsigned letter has been received commenting on conditions along the William Floyd Parkway due to construction of the L.I. Expressway. If the writer will identify himself, the letter can be published and the situation can be clarified for the benefit of other Bulletin Board readers.

Dear Sir:

I wonder how many people on site remember that the words "Official Vehicles Only" and "Official Car" written in parking spaces means exactly that! I resent walking clear across the parking lot in the rain because someone has parked his favorite auto in the space reserved for the official car I've just been driving. Please don't fill official places with your Mustangs and Volvos. It's darned inconvenient for the next Lab car user - he can't find the vehicle in its accustomed home - and I hate wet feet.

—Sue Ogden

Arrivals & Departures

Arrivals

Philip F. Breher.....	Plant Maintenance
Salvatore T. Camarda.....	Central Shops
Arthur J. Dunn, Jr.....	Plant Maint.
Donald V. Hirst.....	Physics
Joseph Lo Cicero.....	Plant Maintenance
Irene L. Rosati.....	Biology
Ursula Stauber.....	Medical
Barbara F. Waters.....	Personnel

Departures

Alfred M. Barth.....	Applied Math.
William R. Busch.....	Accelerator
Robert J. Farley.....	Accelerator
Lyda M. Hartman.....	Accelerator
Jane McAuley.....	Nuclear Engr.
Robert J. Reidy.....	Applied Math.
Dallas G. Thompson.....	Physics

Cafeteria Menu

Week ending April 28, 1967

Monday, April 24	
French Vegetable Soup	.20
Breaded Pork Cutlet	.65
Baked Meat Loaf/Onion Gravy	.65
Baked Macaroni au Gratin	.50
Hot Sandwich Special	
Meat Ball Hero	.65
Tuesday, April 25	
Lentil Soup	.20
Pot Roast of Beef/Vegetable Gravy	.65
Grilled Liver Steak/Fried Onions	.65
Glazed Ham Balls/Sweet & Sour Sauce	.60
Speed Line Sandwich Special	
Sliced to Order Corned Beef	.75
Wednesday, April 26	
Tomato Rice Soup	.20
Southern Fried Chicken	.65
Chinese Pepper Steak/Rice	.65
Western Omelette	.55
Hot Sandwich Special	
Minute Steak/Onion	.70
Thursday, April 27	
Chicken Noodle Soup	.20
Veal Cutlet Parmigiano	.70
Chopped Steak/Onions	.65
Spaghetti/Meat Sauce	.60
Speed Line Sandwich Special	
Hot Tongue Sliced to Order	.75
Friday, April 28	
Manhattan Chowder	.20
Fried Fillet/Tartar Sauce	.65
Baked Haddock Creole	.65
Cheese Blintzes/Sour Cream	.60
Baked Ham/Fruit Sauce	.65
Hot Sandwich Special	
Pepper & Egg on Bun	.65



Greasepaint Rehearsal Scenes . . .



Roar of the Greasepaint Offers Something For All

By Jerry Friedman, Director

Trying to describe "The Roar of The Greasepaint . . ." is no easy job. I consider it a great musical because it offers something for everyone.

For music lovers there is a beautiful and versatile score. So versatile that it is difficult to believe that it was all written by one composer. The songs range from burlesque, Dixieland, and Music Hall to Gershwin. Many of the tunes, such as *Who Can I Turn To* and *The Joker*, are already standards.

For those who often don't attend musicals because they find them shallow or lacking in characterization and meaning, there will be a big surprise. Symbolism abounds, and the authors are making some thrusting points about the Game of Life the little man is forced into playing with his society.

However, and here lies the greatness of *Greasepaint*, for those simply looking for an entertaining evening of theatre, this is the show. Ignoring the symbolism you find yourself watching an extremely witty, as well as poignant, play filled with exciting and lavish musical numbers that will keep you humming for days.

I feel fortunate in having the opportunity to work with an excellent and talented cast, an inventive and hard-working production staff, and a fine choreographer, musical director, and orchestra to bring you what we feel is community theatre at its best.

Tickets for Roar, etc.

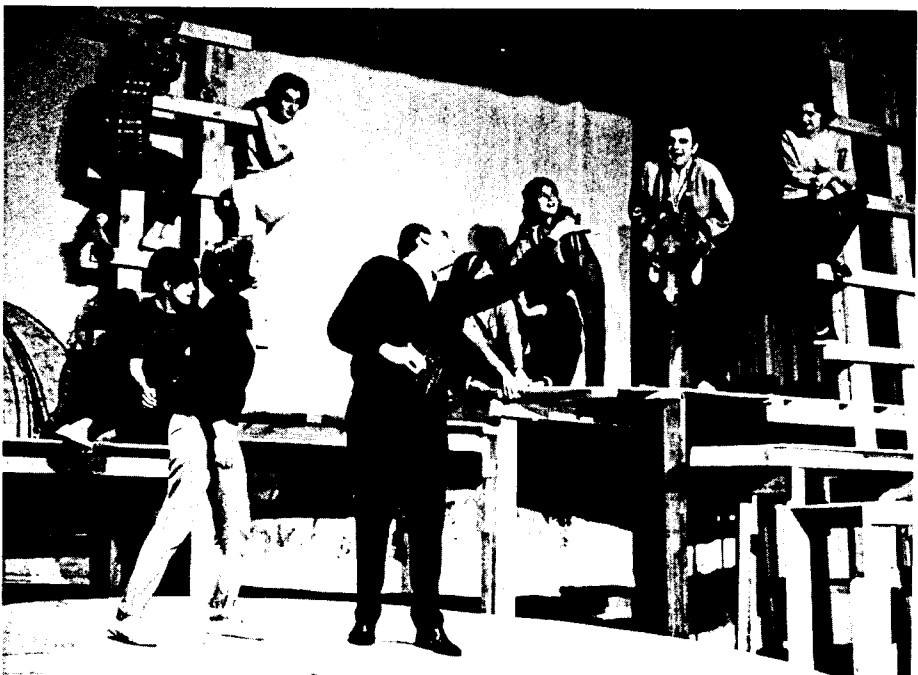
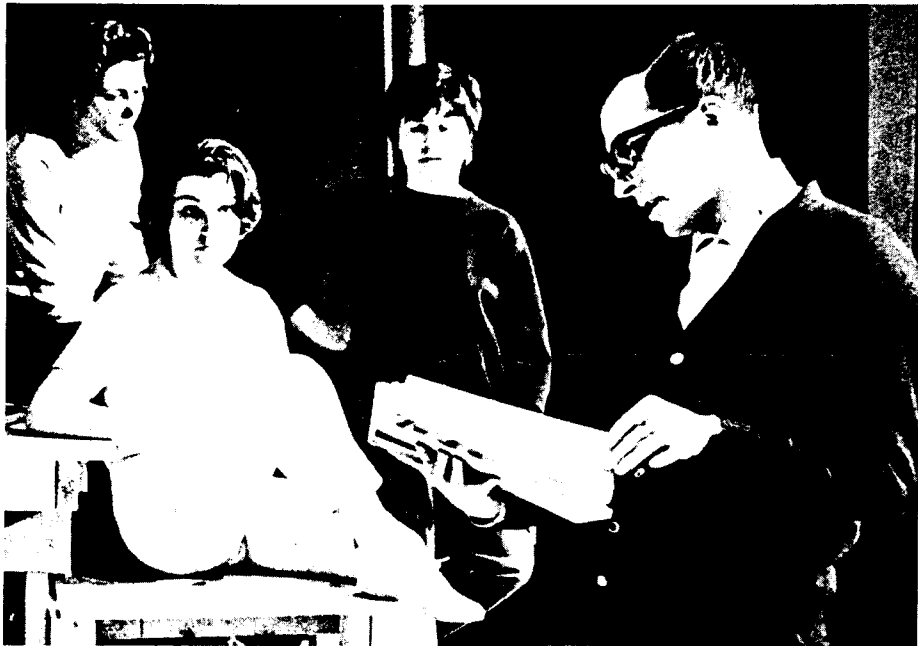
Although the advance ticket sales for "Greasepaint" have been going very well, there are still choice seats available for all four performances. The Box Office will be open for purchase of tickets on the night of each performance.

Safety Item Issue Times

Safety shoes and glasses will be issued from the Protective Equipment Room at the I & HP building on the following schedule:

Shoes - Monday afternoon and Thursday morning.

Glasses - Monday morning and Thursday afternoon.



Cooking Exchange Club

The Cooking Exchange Group will hold a meeting on Thursday, April 27 from 3 to 5 p.m. at the Recreation Building in the Apartment Area. There will be a small charge of 50 cents per person.

Coffee and Conversation Hospitality Committee to Meet

The Hospitality Committee "Coffee" meeting will be held on Monday, April 24, from 10:30 a.m. to 12 noon. Please come and meet your friends from on and off site.

BERA Film Series

Thursday, April 27, at 8 p.m.
Lecture Hall
Torment

A strange film, at once realistic in technique and dreamlike in situation, concerning a young student tormented by a sadistic teacher, and his involvement in a bizarre love triangle with an easy-moraled but mysteriously frightened shoppirl. This film, a Grand prize winner at Cannes, contains the essence of Bergman's subsequent philosophy. Directed by Alf Sjobert, script by Ingman Bergman. (90 minutes)

Short: A Tribute to Dylan Thomas

The poet's own words and images of the land he loved are narrated in this beautiful film evoking a mood of nostalgia and sadness. A haunting description of the poet and the Welsh environment in which he lived and wrote. Featuring Richard Burton. (30 minutes)

Movie Tonight: The Guns of August
Short: Colorado, Wild River

BNL Aviation Club Is BERA Sanctioned

On April 7th the BNL Aviation Club was officially sanctioned by BERA. Now that it is a BERA activity it is possible to accomplish some of the goals it has set for itself. For example, a room and bookcase have been authorized for our use so that we may set up an aviation library. A supplemental budget was allotted by BERA to promote this idea. Another project the club is discussing is the possibility of procuring a Link Simulator so that the club may get those instrument hours needed to make every pilot proficient.

Members please take note that a scheduled meeting of the club will take place at the Recreation Building, April 26 at 8:00 p.m. Non-members who are interested in finding out more about this most exciting activity may do so by contacting Dave Potter at Ext. 2953.

Kegler's Korner

by Pat Towey

Green - Old Timers won second half - will roll off against Gnats - first half winners.

Rose - Ladies wound up in a tie - Nightingales met the Pinsplitters for second half winner - let's see how this works out.

Pink - The Ladies did it here too. Fizzles and All Toes tied it up last week and after a roll off the winner will meet the first half champs the Diamonds.

Purple - No results at this time from the boys here - seems there is a close 4-way try for winner of second half.

Blue - Sweepers swept second half and now have to face the Floorwalkers (1st half champs) for league winner.

Red - Here we go again - a roll off with Ah Sos vs. 5 Excuses for winner take all.

Black/Blue - Playmates (1st half) and Kingpins (2nd half) will have fun rolling for league first place winner here. It doesn't bother the scores in any way.

Christine Ulrich rolled 172/173 for 477 scratch series and 672 gross for high woman in this league. High games B. Wilson 200; B. Wessel 208; J. Van Norman 202; F. Walsh 206/216; Frank Green 206; and L. Jacobson 201.

