

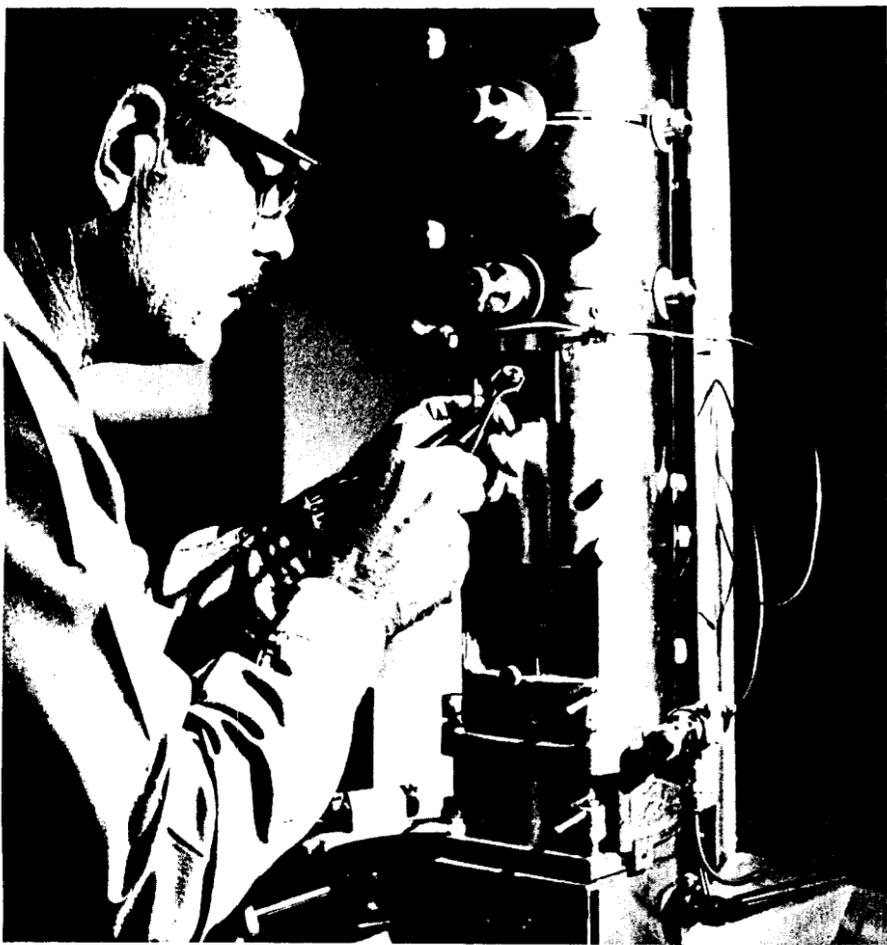
BULLETIN BOARD

Volume 21, Number 48

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December 7, 1967

New Microscopy Lab Formed 11-544-67



Jack Kelsch, in charge of the newly-established Microscopy Laboratory of the Instrumentation Division is inserting a sample in one of the electron microscopes used by the group. Fine structure of all manner of materials may be examined in magnifications as much as 200,000 times with good resolution. Kelsch, and Technician Paul Buhl will be available to discuss applications of electron microscopy to research at the Lab.

Photo by Walton

BNL Firemen Help On Magnesium Fire

When a recent fire in a warehouse in Port Jefferson Station ignited a supply of magnesium metal, BNL firemen were called for advice on extinguishing methods.

Magnesium burns with an intense, white-hot flame, and cannot be extinguished with water. Brookhaven Lab keeps a supply of powdered graphite on hand for use in smothering magnesium and sodium fires that may occur during experimental work. Chief William Martin of the Terryville Fire Department raced over to the Lab during the warehouse fire and received a fifty-gallon drum of the graphite and instructions for its use. After returning to the burning building, the firemen shoveled the graphite over the burning magnesium, which was soon extinguished.

BNL Fire Chief Thomas Newham said that the Lab firemen are all trained in methods of extinguishing unusual fires of this type, and are always ready to supply aid and material during an emergency.

Watch Your Toes

The Personal Protective Equipment Room in Building 535 will not be open for the issue of safety shoes on Monday, December 18, and Thursday, December 21. The room will be open at the designated time for the issue of safety glasses.

Benefits Folder Gets Top Rating

BNL's Insurance Highlights folder has received recognition from the educational conference of the National Foundation of Health, Welfare and Pension Plans.

According to W. Peter Rommel of Connecticut General, the folder was used to illustrate a "perfect example of what can be done to communicate an insurance message to employees." Rommel went on to explain that "Although it is necessary that insurance and pension certificates be extremely explicit with regard to the interpretation of master contracts, the presentation of employee booklets is an entirely different matter. Many firms are scrapping booklets and replacing them with guides or highlights folders which eliminate details and provide a capsule digest of the important aspects of the program."

Rommel said that the trend in the insurance industry is to digest, simplify, clarify, aid and direct. Only a small percentage of the employees ever read the old style insurance or pension booklets. Their immediate reaction is to contact someone in their organization and ask for assistance.

The 700 people who listened to Rommel's talk all seemed to agree that the BNL booklet was the best method of presenting an employee benefit program in a form that could be easily understood.

Labor Specialist Joins Lab Staff

John G. White, a labor relations specialist, has joined the Brookhaven staff in the Personnel Department as Labor Relations Manager.

Mr. White has previously served as Employee Relations Representative for the Eastern Division of the Stauffer Chemical Co., and Labor Relations Manager for the Harshaw Chemical Co. of Cleveland, Ohio.

White was born in 1920 in Shaker Heights, Ohio, a suburb of Cleveland. He received his BA from the University of Chicago immediately before entering the US Army in 1942.

11-736-67



During the war years, he served in the Signal Corps, and was discharged with the rank of sergeant in 1946 after overseas service in New Guinea, the Philippines and Okinawa. After leaving the Army, White resumed his studies and earned his Bachelor of Laws degree at Western Reserve University.

White, his wife Edith and their four children now live in Mt. Vernon, New York, but plan to move to Long Island.

A Taste of Winter Yet To Come 12-12-67



Last Thursday's snow storm, the first of this coming season, set the stage for this bleak picture of the main entrance to Brookhaven Lab. Many drivers waited until after traffic had diminished before leaving the site to go home and shovel their walks and driveways.

Photo by Humphrey

BNL's Eighteenth Annual Report Issued

This week Brookhaven Lab's eighteenth Annual Report was issued. The 254-page document covers the period from July 1, 1966 to June 30, 1967. The first three progress reports from BNL were issued on a semi-annual basis, and it was not until the 1950 report that an annual report was instituted.

The first annual report, AS-4, was issued in September 1950, and covered the period from July 1, 1949 to June 30, 1950. The 148-page report was produced by the Photography and Graphic Arts Group, who reported having processed 46,000 feet of film. In the new report, the same group reports over 5,800,000 feet of film processed.

In 1950, 1325 people were listed on the permanent staff of the Lab. On June 30 of 1967, the total was 3,333 full-time employees. In fiscal 1950, the payroll was \$5,388,265. The 1967 fiscal year payroll is listed as \$34,004,064. The total operating costs of the Lab were \$7,482,386 in 1950 compared to a figure of \$44,848,744 for the past fiscal year.

The first annual report was reproduced from typewritten pages printed in a reduced size. It was not until 1954 that the copy was set in type, and in 1956 that the typesetting was done at the Lab.

The 1950 report told of the completion or near completion of many of the initial facilities planned for BNL. The reactor complex was almost completed, and by August 22, the reactor went critical. Work was progressing rapidly on the Cosmotron, and it was expected to become operational in January of 1951. The cyclotron-Van de Graaff building and machinery were completed and research had been started with the electrostatic generator.

The new annual tells of the cessation of operation of the Cosmotron as of December 31, 1966. The 3-BeV synchrotron has been placed on standby, pending decision on its eventual disposition. This year the 60-in. cyclotron was shut down for conversion to sector focusing, variable-energy operation. The east end of the Cyclotron building is being modified to house a new Tandem Van de Graaff facility that will allow production of singly-charged particles up to 30 MeV.

In 1950 Leland J. Haworth was Director of BNL, with Gerald F. Tape as Assistant. Haworth is now Director of the National Science Foundation, and Tape is a Commissioner of the AEC.

11-794-67

Here and There

Dolores del Castillo

Harry Palevsky (Physics) and Edward Sayre (Chemistry) recently participated in the National Youth Conference on the Atom, held in Chicago, November 29-December 2. The purpose of this Conference is to present to some of the nation's most capable high school science students and teachers a "picture of the promise of the peaceful atom." Dr. Palevsky spoke on "Probing the Motions of Atoms and Nuclei in the Unseen World." Dr. Sayre's address was entitled "The 'New World' and the Fine Arts."

John Deitz (Safety) recently attended a meeting of the Eastern Section of the Combustion Committee held at the University of Pittsburgh. The meeting dealt with the scientific aspects of fire hazards.

Medical officers from the New London Submarine Base visited the Laboratory last week and toured the HFBR, Health Physics and the Medical Department.

Twelve Rockefeller Fellows toured the physics and biology facilities on December 5.

Jean Crussard of Saclay will be at the Laboratory today and tomorrow discussing high energy experiments at the AGS.

Martin Rosenblum (I & HP) addressed the students at the Boardman High School in Oceanside, December 5, showing them advanced electronic equipment to demonstrate and explain the latest computer techniques.

Heinz M. Kottowski and Bernard P. Milliot of Ispra are at the Laboratory today to discuss boiling liquid metals.

Douglas L. Allan from the United Kingdom will visit Nuclear Engineering tomorrow to discuss nuclear structure.

Dennis Puleston (PIO) addressed the Center Moriches Rotary Club on December 5. His topic was the timely one of bay pollution.

Professor Sergio G. Quadri, of the University of Concepcion in Chile, and presently an IAEA Fellow training at the Puerto Rico Nuclear Center, will spend some time with members of the Chemistry and Biology Departments discussing radiation chemistry and radiation processing.

A number of physics graduate students from State University of New York at Stony Brook will visit the Laboratory on December 12.

Maurice Goldhaber (DO) Harry Palevsky (Physics) and David H. Gurinsky (NED) attended the 25th Anniversary Observance of the First Nuclear Chain Reaction held at the University of Chicago, December 1 and 2.

Thomas Alexander of Fortune Magazine will spend December 13 and 14 at the Laboratory to gather material for a forthcoming story on high energy physics.

Arrivals & Departures

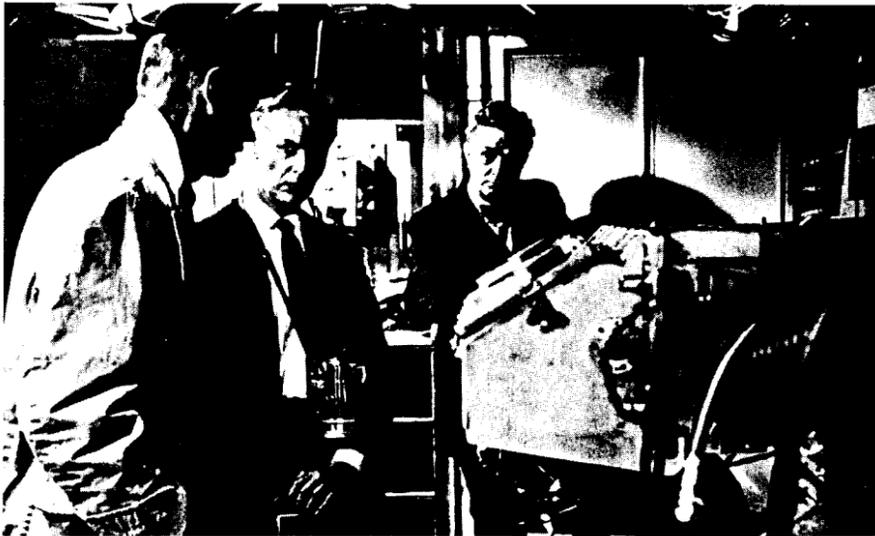
Arrivals

David Cheng.....Physics
 Gareth A. Mair.....Biology
 Anna M. McCance.....Medical
 Janet F. Smith.....Physics
 Peter Webster.....Biology

Departures

William J. Cole.....Biology
 Carson F. Daniels.....Applied Math.
 Carl DiGesare.....Plant Engr. & Plan.
 Leif R.D. Hjarne.....Nuc. Engr.
 William S.S. Ogden.....Medical
 Olaf Skjeggstad.....Physics
 Michael Sullivan.....Plant Engr. & Plan.

Editor Researches BNL Photo Applications



James S. Forney, technical writer and contributing editor of *Popular Photography* magazine, visited the Lab last week to gather material on some of the highly specialized uses of photography in atomic research. His report will constitute part of the lead feature of a new series for the magazine. Shown on the camera platform of the 80-in. Bubble Chamber are (left to right) Dr. Robert Louttit, senior physicist of the Bubble Chamber Group, Forney, and Alf Christoffersen, head of Technical Photography.

Photo by Humphrey

Demerec Library Dedication Sunday

The Milislav Demerec Memorial Science Library at C.W. Post College will be dedicated on Sunday, December 10. Dr. R. Gordon Hoxie, Chancellor of LIU and President of C.W. Post, will preside over the ceremonies, and Dr. Howard J. Curtis of the BNL Biology Department and former colleague of Dr. Demerec, will give an address. Dr. Demerec, Senior Geneticist in the Biology Department, had been a consultant to BNL since 1948.

Born in Yugoslavia in 1895, Dr. Demerec came to the U.S. in 1923 to study at Cornell University from which he received a doctorate in genetics. Following this, he came to the Carnegie Institution of Washington at Cold Spring Harbor. He remained at the Institution until 1960, having served as Resident Investigator, Assistant Director, Acting Director, and Director.

In 1960 Dr. Demerec came to BNL as Senior Geneticist, and remained until 1965 when he accepted the post of Research Professor of Biology at C.W. Post College.

His 45 years of research were concentrated on the better understanding of genes, the cellular unit transmitting traits of heredity. First researching with maize, he turned his studies to the investigation of mutable genes of other plants and animals. He later studied changes produced in genes and chromosomes by ionizing and ultra-

violet radiation, employing radiation techniques to produce mutations in penicillin mold which led to the discovery of a mutant producing a higher yield of penicillin.

In 1957 Hofstra University conferred on Dr. Demerec the honorary degree of Doctor of Laws; in 1960 the University of Zagreb conferred the degree of doctor honoris



cause; and in 1961 C.W. Post College conferred the honorary degree of Doctor of Science. In 1962, the National Academy of Science, recognizing the importance of his work, awarded Dr. Demerec the Kimber Genetics Medal.

Dr. Demerec died in April of 1966.

Pre-Yuletide Rally

Rally master G. Warner requests your presence at his special pre-Yuletide Rally on December 16. Automobile and flashlight are a must. You must bring a friend. You will be greeted from 7 p.m. until the first car is off at 8 p.m. at the Oakdale Lanes/Movie Parking Lot, Oakdale. B.Y.O.M. (bring your own money). \$3 for BLASTers and \$4 for all others. Trophies will be awarded at the conclusion of the rally. Dress optional.

Alien Address Registration

During January of each year, every alien in the United States must report his address to the Commissioner of the Immigration and Naturalization Service. Alien address report forms are available at the U.S. Post Office, 2 Center Street, Upton.

Service Awards December 1967

Twenty Year

Higinbotham, William A.Instr. & H.P.
 Michaelis, Edward.....Fiscal
 Stang, Louis G., Jr.....Nucl. Engr.

Ten Year

Carlsson, Tage G.....Plant E. & P.
 Elliott, Edward.....Accelerator
 Figliuzzi, Otilie.....Medical
 Jewett, Howard H.....Plant E. & P.
 Kiriokos, George.....Instr. & H.P.
 Ludwig, Robert T.....Accelerator
 McFadden, Edward J.....Fire Dept.
 Newman, Leonard.....Nucl. Engr.
 Swezey, Gloria.....Mech. Engr.
 Thorwarth, Helmuth.....Mech. Engr.
 Torre, Anthony P.....Instr. & H.P.
 Willmer, Raymond A.....Plant E. & P.
 Weisenbloom, Jack.....Accelerator

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 Public Relations Officer

Letters To The Editor

Dear Sir:

After reading the article I sent to you concerning studded tires, which appeared in the November 30 issue of *The Bulletin Board*, I feel obliged to write and comment on several points which, although not inaccurate, are somewhat misleading. I realize the article referred to regular highway type tires with studs added rather than to studded snow tires, but perhaps the article should have emphasized this more strongly since the public today considers the term "studded tires" to mean only studded snow tires.

Regarding studded snow tires, they are now illegal in only six southern states, and among those only Virginia has a snow problem. The way the legislative tide has been running the tires will probably be legal there before long. Studded snow tires are approved for New York emergency snow routes, although the article was correct in stating that studded regular tires are not permitted.

Studded snow tires are just as good as any other snow treads in loose snow, and much better on glare ice or snow over ice. They were pioneered by European race-rally drivers who were able to attain fantastic speeds over ice and snow-covered, twisting Alpine roads with relative safety. When the studded snow tire (and the radial tire, for that matter) was first introduced to the American driving public several years ago, it met with an initial, traditional resistance which is gradually eroding, and in the next few years it may replace the regular snow tire entirely.

It's possible that the studs, if improperly installed, could come out while the wheel was in use, but whether or not this would be a real hazard is questionable. Regular treaded new tires are always picking up pebbles and small rocks which lodge between the deep, new treads and then fly out when the wheel is rotating rapidly - yet this is not considered any great hazard. However, the real point here is that if one were to take this negative approach to the auto as a whole we'd have to conclude that the entire vehicle was unsafe, since, if improperly installed, a wheel, fender, door, gas tank, etc. could fall off and become a hazard.

About the only thing I would have against the studded tire would be that it might encourage people to drive too fast under icy conditions.

Also, with everyone using tungsten tipped spikes in their tires, is it conceivable that actual grooves could be worn in the surface of our new, \$2 million per mile parkways and expressways?
 —William Barnes

Play Reading Tonight

Eena-Mai Franz will host an informal play reading in her home on Thursday, December 7, at 8:15 p.m. Spider's Web by Agatha Christie is the play that will provide the evening's entertainment. If you are interested, come join the fun.

Eena-Mai lives on Mill Road in Yaphank, across from the Lake View Inn and behind Vera's Lake Motel. Her driveway is immediately west of the Motel. If there is any snow, please park at the Motel and walk up the driveway to the house.



Colors, Sounds and Scents Of India

The next meeting of the BNL Camera Club will be on Wednesday, December 13, at 8:30 p.m. in the lounge of the Recreation Building. A slide program, "India in Color," will be given by Ken Metzner of The Physical Review.

Metzner has been in India three times during the last three years, conducting Summer Institutes for physics high school teachers. The slides he will show are based on his extracurricular activities in various parts of India, and will include portraits of people, street scenes, religious festivals, and ancient temples. Background music will be supplied by Ravi Shankar, Subbhalakshmi and others. There will be sweet scents of sandalwood incense, and a display of Indian handicraft and bronze statuary.



Tickets Available Personnel Services

Tickets and Reservations Available - Theatre tickets may be purchased at a 20% discount and reservations for dinner/theatre may be made at a 10% discount. Schedules and prices are posted in the Recreation Office. All orders must be placed in person at the Recreation Office between the hours of 9 a.m. and 1 p.m. daily, and accompanied by a check or money order made payable to the theatre at least two days in advance. Dinner/theatre requires only a \$5.00 deposit per person. Sorry - no discounts on Saturday nights.

Mineola Theatre - Now through December 10 "Life Begins at Minsky's"; December 12 through 17 Walter Slezak in "The Lion in Winter."

Westbury Music Fair - Closed until December 26; December 26 through 31 "The Woody Allen Show."

Wedgewood Dinner Theatre - Now through December 17 Sherry Britton in "The Wild World of Burlesque."

LI Ducks Hockey - Reservations for discount tickets may be made by calling the Recreation Office, Ext. 2808, at least two days in advance of desired date. Reservations can only be accepted for any one of the three upcoming scheduled games listed below and must be paid for at the LI Arena Box Office. The next three games are Friday, December 8, Syracuse; Sunday, December 10, Johnstown; Sunday, December 17, New Haven.

Discount Exchange Tickets - May be picked up at the Recreation Office from 9 a.m. to 1 p.m.

Madison Square Garden - New York Knicks (Basketball). Scheduled games are: December 9, Detroit; December 16, San Diego; January 6, Detroit.

Theater Group To Sponsor Junior Acting Workshop

A Junior Workshop is scheduled to begin after the first of the year if there is sufficient interest. A series of fifteen weekly sessions will be conducted by Mrs. Bonnie Hughes in Mime, Voice and Acting Techniques.

Mrs. Hughes, wife of Garrett Hughes, AGS, has a degree in Theater from Michigan State, with advanced study at the University of Michigan. She has taught theater arts to children for four years. The fee for the course is \$15.00. The workshop will consist of two groups: ages 10-14 and ages 15-18. Enrollment is limited to children of Lab employees, with a maximum of 15 in each age group. Registration is on a first-come basis. Applications may be obtained at the Recreation Office. For further information, call J. Friedman, Ext. 2548.

Snow Closing

As in past years, Lab employees are urged to listen for closing notices before starting to work on a snowy day. Information on emergency closing due to inclement weather will be carried by the following radio stations:

		AM	FM
WRIV	Riverhead	1390	—
WHRF	Riverhead	1570	103.9
WPAC	Patchogue	1580	106.1
WALK	Patchogue	1370	97.5
WLNG	Sag Harbor	1600	—
WGSM	Huntington	740	94.3
WBAB	Babylon	1440	102.3
WHLI	Hempstead	1100	98.3

Jo-Ann Meo Chosen For State Orchestra

Jo-Ann Meo, 16 year old daughter of Anthony Meo of I & HP, was selected by audition to play with the New York All-State Orchestra at the music director's conference held at Kiamesha Lake yesterday. Miss Meo, concertmistress of the Patchogue High School, has studied violin since early childhood. A member of the all-Long Island orchestra, she is also a participating member of the Suffolk Symphony Orchestra. She performed here at BNL in the recent production of "The Roar of the Crowd."

Miss Meo is very community minded, doing volunteer work with the Industrial Home for the Blind and with the poverty program. She is one of six student volunteers recently awarded a certificate of appreciation from the Kiwanis Club of Patchogue for assisting elementary school children from economically and culturally deprived homes.

Miss Meo lives at home with her parents at 333 Oak Street, Patchogue.

Mountain Club Meets On December 13th

The BNL Mountain Club (deliberately misnamed) is devoted to almost every vigorous, non-motorized outdoor activity. Club trips in the past year have included hikes on and off Long Island, mountain climbing in Maine and New Hampshire, rock climbing, skiing, bicycling and canoeing. Beginners are always welcome. The Club keeps camping and climbing equipment available for members' use.

There will be a meeting of the BNL Mountain Club Wednesday evening, December 13th, at 8 p.m. in the Lounge at the Recreation Building in the apartment area. The group will show slides of recent trips (please bring any you have), plan future trips (particularly skiing), and drink beer. Anyone interested in joining the Club should attend the meeting or get in touch with Joe Fineman, Ext. 2341.

Four Hundred Attend Winter Carnival Dance

BERA's Winter Carnival last Friday turned out to be all its advance publicity said it would be. A compatible crowd of four hundred came early and danced non-stop until one o'clock. The band was so well received, arrangements were made on the spot to keep the music going until two.

Herman and Marilyn Stenzler captivated the audience and received standing ovations throughout their two hour appearance.

The traditional midnight door prize was awarded to Mrs. Carmen Spirio who was shocked at the nature of her gift - a snow shovel and a box of snow. However, after she returned to her table, she was recalled to the bandstand and given a gallon of wine which stood three feet high. Later in the evening, she was overheard extending invitations to a spaghetti party to help dispose of her prize.

Chairman of the decorating committee, Bob Lundgren, and his fellow committeemen received congratulations from the dancers for their fine decorative effects. The newly elected President of the Camping Club, Harvey Bumstead, welcomed attendees and ably acted as Master of Ceremonies throughout the evening.

BERA Film Series

Thurs., Dec. 14 - 8 p.m. - Lecture Hall
The Roots

A quartet of short stories directed by Benito Alazaki has been combined into an earthy drama in this excellent, prize-winning Mexican film. One story tells of a young mother forced to hire herself out as wet nurse because she cannot afford food for her own child. In another, a female anthropologist visits a remote Indian village to collect thesis material and learns a grim lesson.

The other stories deal with the cruelty of children and the surprising experience of an archaeologist who attempts to buy the daughter of a farmer. The prizes won by this film at Cannes and Venice were well deserved.

Short: A Small Bronze Mask

—Harvard Lyman

No Movie Tonight.

'Duck' to be Subject of Lecture

On December 13, at 7:30 p.m. in the Brookhaven Center, the Naval Reserve Company on site will hold a lecture and cocktail party. Dennis Puleston, Information Officer of BNL, will be the speaker. His topic will be the World War II development and operation of amphibious DUKW's.

Puleston will talk about the operational use of the amphibious truck during the

early stages of its manufacture. Work was begun on the development of this vehicle in the spring of 1942, by the Office of Scientific Research and Development. By the end of World War II, more than 21,000 DUKW's had been produced.

Staff members and their ladies are invited to attend. The cost is \$3 per person. For reservations call W. J. Schneider, Ext. 2970.



DUKW crossing the Danube River at Donaustauf, Germany, after other means of crossing were destroyed.

