

the Bulletin Board

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BERA FILM SERIES

ROMEO AND JULIET

February 1 Lecture Hall 8:30 p.m.

This Thursday, the magnificent film "Romeo and Juliet" will be shown at Brookhaven. A faithful following of Shakespeare's classic tragedy, the picture was elaborately filmed in Italy and captures the full beauty of its countryside. Painstaking care was also taken with the details of dialogue, setting, costume and movement of the plot. The sensitive performances of an outstanding cast, headed up by Lawrence Harvey and Susan Shentall in the title roles, completes the unusual attraction of "Romeo and Juliet."

OVER 700 REGISTER AT STANYS CONFERENCE

Registration at the conference of the Science Teachers Association of New York State, held at the Laboratory last Thursday through Saturday, exceeded all expectations by more than 50%. The total registration count for the meeting was 701, as opposed to the previously estimated turnout of 450.

The Local Planning Committee for the conference is extremely grateful to the many people at Brookhaven who "pitched in" to handle the unexpected attendance at the conference, by far the largest ever held at the Laboratory.

BERA BOARD ELECTION

During the early part of February an election will be held to fill three positions on the Executive Board of the Brookhaven Employees' Recreation Association.

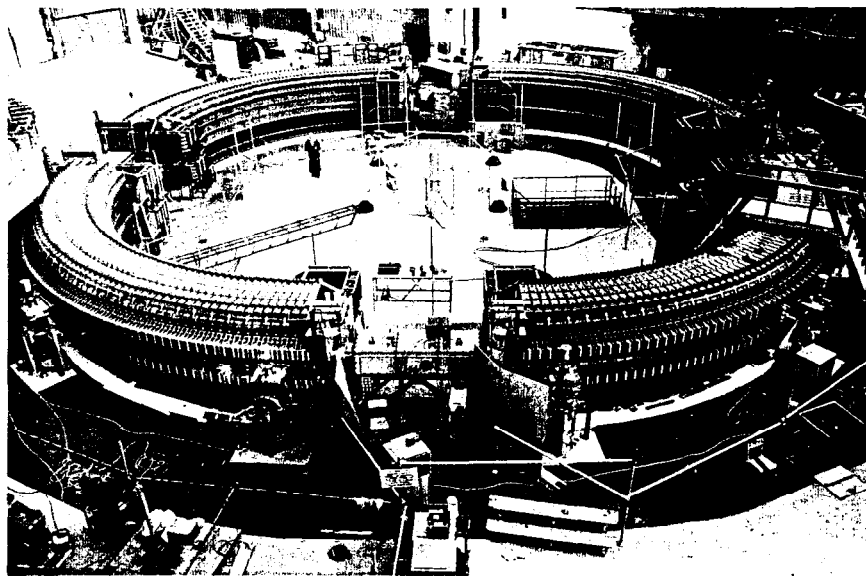
The Board members at the present time are John Binnington, Blanche Laskee, Pat Towey, Mary Semerjian, Lawrence Fuller and Alf Christoffersen. The terms of the latter three members expire on March 1.

The following slate of candidates has been selected by the BERA nominating committee for election to the Board:

ALF CHRISTOFFERSEN	Graphic Arts
LAWRENCE FULLER	Nuclear Engineering
JERE AUSTIN	Hot Lab
LEONARD BAKER	Health Physics
WILLIAM KNAPP	Director's Office
DONALD DAVID	Bubble Chamber Group

SACLAY NUCLEAR RESEARCH CENTER

The concluding articles in the BULLETIN BOARD's current series on Brookhaven's fellow atomic research laboratories will be devoted to the institutions of other countries. Beginning this final set of stories is the following description of the French Atomic Energy Commission's Saclay Nuclear Research Center (SRNC).



Saclay's "Saturne" proton synchrotron during construction.

Although major strides in the dawning nuclear science were made in France prior to World War II, the country conducted virtually no atomic energy research during the war. When the French Atomic Energy Commission was established by the government in 1945, it therefore – unlike its counterparts in Great Britain and the United States – had no reservoir of trained personnel, facilities and scientific know-how on which to draw. The task of the new Commission was to lay the foundations for an atomic industry that was then non-existent: it had to train the first research workers and engineers and place at their disposal everything they needed for their work in the way of laboratories, equipment and raw materials. By 1948, however, the first reactor in France, "EL 1," went into operation at the old military fort of Chatillon, near Paris. In 1952, the Saclay Nuclear Research Center, the first permanent research installation established by the Commission, went into operation.

Today, Saclay is the principal nuclear research and instruction center of the French AEC. Its research programs are centered around the use of five particle accelerators and five experimental piles, or reactors. In the former group are two electrostatic accelerators of the Van de Graaff type, a 25 Mev cyclotron, and a 28 Mev linear accelerator. The fifth particle accelerator is a 3 Bev proton synchrotron, "Saturne", which achieved criticality in 1958.

The initial reactor established at Saclay was the "EL 2," the first pile ever cooled by gas circulated under pressure. In addition to its use as a research

(Continued on following page)

SACLAY NUCLEAR RESEARCH CENTER—Cont'd

tool, EL 2 also produces radioisotopes and plutonium. Other reactors at SRNC are the "EL 3", designed for research on high neutron fluxes, and three research reactors of zero power: the "Aquila", which facilitates neutronic research concerning natural uranium-heavy water; "Persepine", a homogeneous plutonium reactor designed for the study of critical masses of fissionable material; and "Alize", an enriched uranium-light water reactor.

Several large scientific divisions of the French Atomic Energy Commission conduct basic and applied research at Saclay in all aspects of physics, as well as in metallurgy, chemistry, biology and medicine. The Division of Physics and Atomic Reactors covers a wide area, from reactor and accelerator development, through basic research in solid-state and high and low energy physics, to studies in the electronics field. Within the Division of Nuclear Materials and Fuels, work is done in chemistry, physical chemistry and metallurgy. Major research is conducted on fuels and moderators for reactors, particularly in the area of refractory metals, and prototypes of fuel elements for experimental piles are created and manufactured by this group. The processes for the manufacture of neutron moderator materials, now used by French industry, were also developed at Saclay by this Division.

The SRNC Radioisotope Service is in charge of the production and sale of radioactive isotopes to industry and other research institutions. Currently, the Service is able to meet 90% of the French demand and to export approximately 30% of its production.

The Saclay program in the field of biology is concerned chiefly with basic research on the effects of ionizing radiations on elementary structures, cells, and superior organisms. Its activities also extend to various problems of applied radiobiology in radiotoxicology, agronomy and medicine.

Utilizing the "Saturne" synchrotron and the linear accelerator, scientists at Saclay are also engaged in basic research in thermonuclear fusion.

In addition to the research and development activities outlined above, SRNC also plays the role of a nuclear university through its Institute of Nuclear Sciences and Techniques (INSTN). INSTN, created in 1956, offers courses to scientists and engineers of all countries. Its program includes courses in metallurgy, atomic engineering, accelerator theory and techniques, radiobiology, and reactor operations.

PIANO CONCERT**Wednesday, February 7**

The fourth concert of the 1961-62 BERA Concert Series will take place on Wednesday evening, February 7, at 8:30 p.m., in the Brookhaven Center.

Daniel Abrams, pianist, will be the featured artist. In his second appearance at Brookhaven, this outstanding young American musician will perform works by Scarlatti, Mozart, Schumann (Faschingsschwank), Beethoven (Waldstein Sonata), and Chopin.

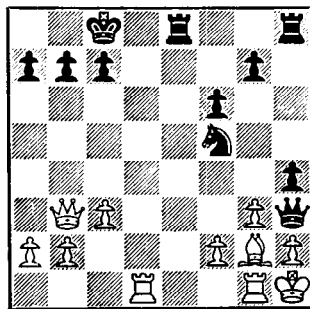
Admission prices are \$3.00 each for adults, \$0.75 for children.

SAVE THIS DATE!

Operation Get-Together, our annual Lab-wide picnic, will be held on Saturday, July 28.

CHESS PROBLEM

In this week's problem, Black must move as he faces mate and his Queen is under attack. He not only gets out of his predicament, but even wins. How? Answer elsewhere in this week's BULLETIN BOARD.

**DISCOUNT TICKETS**

Discount tickets to "My Fair Lady" are currently available at the Personnel Office.

*Arrivals and Departures***WELCOME TO BNL**

Business Office	
Jerome F. Wocel	Ext. 2385
Central Shops	
Charles H. Horn	577
Nuclear Engineering	
Neal R. Carciello	2472
Richard Haller	2406
Michael A. Rothbart	696
Photography & Graphic Arts	
John P. Gibbs	2191
Plant Maintenance	
Salvatore Maniscalco	2120

LEAVING BNL

Applied Mathematics	
Thomas Crimmins	
Chemistry	
Slobodanka Veljkovic	
Instr. & Health Physics	
John Dabrowski	
Supply & Materiel	
Norman Eckman	

**ANNOUNCEMENTS OF
LABORATORY STORM CLOSINGS**

The following radio stations will carry announcements concerning Laboratory closings and openings when storm or other emergency conditions exist:

WBAB	Babylon	AM 1440, FM 102.3
WPAC	Patchogue	AM 1580, FM 106.1
WRIV	Riverhead	AM 1390
WALK	Patchogue	AM 1370, FM 97.5
WGSM	Huntington	AM 740
WHLI	Hempstead	AM 1100, FM 98.3

BROOKHAVEN VISITORS

Two groups will make one-day visits to the Lab this week. This Thursday, about seventy representatives from the American Institute of Electrical Engineers will be on site. On Friday, forty members of the International Institute of Nuclear Science and Engineering at Argonne National Laboratory in Illinois will tour BNL.

BASKETBALL

Who would like to venture a guess as to what the outcome would have been if the Untouchables had played Metallurgy last Tuesday in the BNL slo-break league? As it turned out, Metallurgy won by a forfeit. Don't make us guess men.

In other league games, the Chuckers last to the Old Timers 43-26. Biology, those boys with the microscopes and slides, couldn't focus in on the hoop for more than 14 points as the Phoubars took their measure, 43-14.

SKIN DIVERS TO MEET



The first meeting of the Brookhaven Skin Divers Club for the 1962 season will be held Monday, February 5, at 8:00 p.m. in the club room of the Recreation Building on York Lane. All members are urged to attend.

Business for this meeting will include election of 1962 officers, selection of the 1962 budget for equipment, and planning our coming season.

This year should be the biggest ever for the club. If you have an interest in skin diving, why not come down and join the group? New members are always welcome.

Remember, Monday, February 5th at 8:00 p.m. We want a big turnout for this meeting, so all you members who have cobwebs on your equipment, get down to the Recreation Building.

P.S. Beer and chips will be served, on the house!

NIMRODS—PISTOL

CLUB CONTEST

The Pistol Club was the winner of the first contest with the Nimrods Archery Club. Total scores were 280 for the Pistol Club, and 254 for the Nimrods.

Different types of targets were used by the competing groups in order to make the shooting as equal as possible between the two kinds of weapons. The pistol shooting was done rapid-fire for ten shots at a 50-foot slow-fire pistol target. The archers used a 50-foot timed and rapid-fire pistol target, shooting with five arrows twice in succession for a total of ten shots. (Each archer used the individual rate usual for him.) The four highest scores from each club were used to compute the contest outcome. For the Pistol Club, these were: Goodseit, 73; McClelland, 73; Colman, 70; and Rutherford, 64. The four highest archers were: Johnson, 80; Fred Humphrey, 65; Frank Humphrey, 61; and Townsend, 48.

MIXED TOURNEY A SELLOUT! !

The BNL Mixed Doubles Bowling Tournament is expected to be great this year. Sixty-four teams – a capacity house – are all lined up and ready to do battle for the twenty-eight awards that will be given. Trophies will be awarded to the first six high team gross series and the best three men and women's high gross games. First place winners will each receive a custom-fitted bowling ball, while the runners-up will be outfitted with brand-new bowling shoes. Along with their trophies, the third-place team will take home a few bottles of cheer. AND – you bowlers have a chance to win a prize even if you're bottom or in-between marksmen. There'll be a bobby prize and a blind series award (team gross series closest to, but not above, the pre-picked score) in addition to a few door prizes.

So don't forget the date, time and place: Saturday, February 3, at 3:00 p.m. in the Port Jeff Bowl. All BNL bowlers should report to the desk upon arrival at the bowling alleys in order to get your position in the line-up.

STAMPS AND COINS ANYONE?

QUESTION: Do you also feel a club of philatelists and numismatists should be formed at Brookhaven?

ANSWER: Yes! We are interested in forming such a club for the purpose of meeting one another and enjoying the benefits of interchange.

CONCLUSION: All collectors interested in this idea are invited to attend a meeting on February 1, at 8:30 p.m. in the Recreation Building.

GYMDANDEE!

Come one, come all to the greatest dance in BERA history.

The Valentine Dance on February 16 is beginning to shape-up. The S & M committee is hard at work on preparations, and Herman Stenzler's band is practicing up to provide the best music ever.

LAWRENCE AND WAGNER

BRIDGE CHAMPS

Scoring an amazing 77% in the second session of the BNL duplicate bridge championships, Les Lawrence and Sandy Wagner each won a beautiful grand-prize bridge trophy, courtesy of BERA, last Thursday night. Thanks to some imaginative bidding, their Two-session total was 166, after having scored only 68 in the first session. In second place was another fast-finishing pair, Paul Michael and Hank Honeck, who scored 139. The other leading finishers were: Singer and Tillinger, 138; Schermer and Schermer, 132; and Dvorak and Dvorak, 130.

One of the hands contributing to the winners' success was this one:

N (LAWRENCE)	S (WAGNER)
S.	S. 8 5 4 3
H. A 9 8 5	H. K Q J
D. A K Q	D. 8 5 3 2
C. A J 7 4 3 2	C. 10 8

In response to North's 1C bid, South responded 1H on the theory that he could pass any non-forcing bid partner might make, and that if hearts were supported the quality of the suit might make up for lack of length. North made a forcing bid of 3D, and on hearing 3NT from his partner, he bid 4H, the final contract. With the defenders failing to open a trump and with diamonds breaking, eleven tricks were taken for a five score.

SOLUTION TO CHESS PROBLEM

WHITE	BLACK
1.	1. QxP Check
(Simple, wasn't it!)	



BERA BOWLING

BLUE LEAGUE

The Techs, with their big guns working, jumped to a 11-point lead by swamping the Nuclides 4-0. R. Larsen had a 201, 245/602 series which also takes high game so far. D. Hildenbrand rolled 202, 201, 227 for a 630 series, high scratch so far. E. Meier had 181/505. For the losers, Scarlett and Isler rolled 182 and 181, respectively.

The Alleygators moved back into second as they squeezed 3 points from the Sleepers with the help of Lambeck, 197, Sucher, 187 and McGovern, 168. The losers had Bauerfeind with a 187, and R. Meier, 174.

The Skins up and dumped the Needlers 3-0. The Skins brute force had Weinman 193/524, Bugala 190/501 and Remy 184/499. For the losers Majeski rolled a 192/525 series and Weiss a 199.

The Bubble Boys got hot and squashed the Leftovers 3-0. Doing the work were Frantz, 197/521, Spirio 179 and Hart 167. For the losers Uddman had a 194/507 and Jerry Svoboda a 197.

The Bubble Finks took three from the Split-ters. Baer had a 186 and Sondericker a 185; while for the losers, Spira 182, Sick 172 and Carter 170.

PURPLE LEAGUE

The wee Bowl Aids, bowling like pros, swept their match from the league-leading Phoubars, 4-0. Bowl Aids' pros were: Walsh 199/533, Schulz 186, Sawyer 167/478. Phoubars trying were: Vogt 180/488, Gardenier 179/460.

The Woodbutchers, who last week tied their 1st and 2nd games and then lost the last game by 2 pins to the Phoubars, this week lost another heartbreaker to the Toppers, 3-1. Woodbutchers trying were Ruppert 199/498, Benson 174, Lewis 157. Toppers tops were Reany 200/564, Bubka 196/494.

Fiscal won their match with the Hopefulls 3-1. Fiscal had Eberbach 160, and Cross 151. Hopefulls best were Sundberg, 159, and Hanson, 152.

The Scotchies jumped on the pencil-less Designers and took the match 3-1. High-jumping Scotchies were Cermack 199/493, Galen 168, and Johnson 165/486. The Designers rolling were: Chirco 170/497, Roecklien 171, and Dugan 154/429.

GREEN LEAGUE

The Old Timers II walloped the Electrons 4-0. For the winners, Gilmartin rolled 177, 200/530, Reams, 190/509, and Holmquist, 200. For the losers, Levy and Tomesch came up with 180, 205/546 and 204, respectively.

The Reefers forfeited to the Black Birds.

The Fire Department lost ground by losing to the Old Timers III, 3-1: Walker 189, 190/534, Tierney 180 for the winners. Texiera bowled 179/504 for the Fire Department.

The Old Timers I and the Gnats split 2-2. Stonebridge rolled 207/486 for the Old Timers, Van Norman 175/474 for the Gnats.

PINK LEAGUE

The ever-lovin' Twinkletoes lost 3 to the near-sighted Contacts. J. Siebert for the Toes dusted the 2-10 split. M. Doherty for the Cons rolled 153.

The Allthumbs were shellacked by the Question Marks, 3-1. For the Question Marks, L. Bartos rolled 180, 162, 125/638; I. Detmer, 152; and C. O'Neill a 144 plus a conversion of the 5-7 split. L. Jones for the Allthumbs converted the 3-7-10 split.

The Dipions received 3 more from the Nightingales. High for the Dipions were J. Reidl with 190/458, R. Svendsen, 156 and V. Austen 145, 150/420.

NEW DANCE CLASS

A free demonstration and lesson will be offered by two instructors from the Arthur Murray Dance Studio at 8:30 p.m. on Tuesday, February 8 in the Recreation Building. All interested are urged to attend this session, when a new class will be organized.

Ten lessons, one each Tuesday evening, at \$1.50 per lesson, will be offered. Everybody welcome!

Enjoy yourself! These are the good old days you're going to miss in 1981!

CLASSIFIED ADS

FOR SALE

1953 CHEV. - Just passed mech. insp. Avail. Feb. 10. \$59.95 or \$60. with 1953 washing machine in running order. Washer alone, \$3. Robertson, Ext. 2470 or 507.

1961 "VW" - Incl. snow tires, r&h. Two door sedan, \$1300. Virginia, Ext. 565.

1957 FORD RANCH WAGON - 2 dr., 6 cyl., std. trans. Also heater and four new tires. Very good condition. \$550. Alvino, Ext. 2456.

1954 DE SOTO - George, Ext. 889.

1954 OLDS "88" - Four door sedan, auto. trans. Very good cond. - must sell. Asking \$250. Kamijo, Ext. 680.

1955 DODGE - 2 dr. hardtop. Royal Lancer, r&h, power steering - a cream puff. \$495. Ext. 2196 or SH 4-2069.

1959 TRIUMPH TR-3 - Conv., fully equipped, 21,000 mi. F. Governale, Ext. 660.

1961 BUICK SPECIAL - Metallic Blue, 4-dr., V-8, alum. block & auto. trans. power steer. R&h, w/w tires, back-up lights, deluxe hubcaps. 12,000 mi., immaculate. Must sell! Ext. 2212 or MO 1-6754.

1960 CORVAIR - 4-door sedan, almost new tires, 34,000 mi., very good cond. M. Green, Ext. 779 or AT 6-0237.

1955 CHRYSLER - Good running cond., orig. owner. Asking \$250. LT 9-4369 after 5:00.

1958 VW-SEDAN - Fully equipped with all gauges, ammeter, etc. Low mileage, perfect cond. Looks just like new. Reason for selling - family expanding. Best offer. Vic, YA 4-3206 after 5:30.

1952 CHEVROLET - 2-door sedan, std. trans. Fair cond. \$100. HR 3-0288.

1952 AUSTIN "A40" - Somerset 4-dr. sedan. Very good. cond. Excel. gas mileage, clean body and interior. Genuine leather upholstery. F. Bloch, Ext. 572 or AT 6-8724.

SAILBOAT - 23 feet, fiber glass over wood, five-horse auxillary engine, stainless steel and brass rigging. F. Governale, Ext. 660.

1959 LYMAN - With 35 hp Evinrude, Navy Top, controls, lights, etc. Also Tee Nee Trailer, capacity 17 ft. Asking \$1200. AT 1-9163.

CRUISE ALONG - 21 ft. 4 in. 2 bunks, stove, icebox, 60 hp Greymarine engine. 230 hrs. Fully equipped with extras. R. Aichroth, Ext. 782.

3 BEDROOM RANCH - Full basement, attached garage, oil hot-water heat, storms and screens. Located in Holtsville on wooded corner plot 2 miles so. of Suffolk Comm. College. \$14,000. SE 2-6270 after 6.

HOCKEY SKATES - Boy's size 4. Very good cond. E. MacDougall, Ext. 776 or 2315.

HOCKEY SKATES - Boy's size 3. Excellent condition. \$4. Lloyd, Ext. 2196.

KODAK BROWNIE STARFLEX - With flash, etc. In orig. box. \$5. Also Lionel steam locomotive with cars & trans. - no tracks. \$5. May be seen on site. D. Shaver, Ext. 388 or AT 6-0596.

BATHROOM VANITY - All grey formica. 42" with 18x20 inch sink opening. \$15. Ext. 2188.

BABY CARRIAGES - \$7.50, \$5.00. Also wooden conv. high chair, \$5.; baby butler, \$3.; potty chair, \$2. Ext. 2272 or JU 8-9317 after 6:00.

TV ANTENNA - Very high gain with a pole. Any offer over \$5. Kamijo, Ext. 680.

SPRINGFIELD RIDE-ON POWER MOWER - 3½ hp Clinton engine, chain drive action. Like new. Cost \$200. Asking \$100. Sale of home and property reason for sale. Betty, Ext. 574.

RCA TV - 21" Mahogany set. Good cond. Carter, Ext. 2339.

WHITE FIGURE ICE SKATES - Girl's size 6½. \$2. YA 4-3124.

SLIDE RULE - K&E log duplex decitrig, with leather case. Foelix, Ext. 769.

WANTED

HOUSEHOLD HELP - Steady, one day or one-half day per week in Shoreham. SH 4-5096.

PING PONG TABLE - Regulation size 5'x9'. A. Fichtner, Ext. 2334.

GIRL'S ICE SKATES - Size 6. Virginia, Ext. 565.

CAR POOLS

Would like to join or form car pool from Bohemia. Can drive on Wednesday and Thursday. J. Karle, Ext. 2293.

Would like to join car pool from Bay Shore. Rod, Ext. 604.

Reliable driver would like to join car pool from Huntington-Hicksville area. K. Fuchel, Ext. 2446.