

# the Bulletin Board

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FEBRUARY 19, 1963

## TRIO DI BOLZANO CONCERT

A reminder that the TRIO DI BOLZANO will be heard on Tuesday, February 26, in a program featuring Dvorak's Dumky Trio and Beethoven's Archduke Trio.



**Date:** February 26      **Time:** 8:30 p.m.  
**Place:** Brookhaven Center  
**Tickets:** (available at the door)  
BNL employee (or family member) \$3.00 each  
Guests \$3.50 each  
Persons under 18 \$1.50 each

## WEEKLY PAYCHECKS TO BE DISTRIBUTED THIS THURSDAY

Washington's Birthday, Friday, February 22, will be observed as a regular Laboratory holiday. Therefore, **weekly paychecks** will be distributed in the usual manner at the Peoples National Bank on **Thursday**, February 21. The bank's hours on Thursday will be: 0945 - 1200; and 1230 - 1600.

## CAFETERIA TO BE CLOSED FOR HOLIDAY WEEKEND

The Cafeteria will be closed on Washington's Birthday, Friday, February 22 and will remain closed throughout the weekend. The Snack Bar will be open from 9:00 a.m. to 5:00 p.m. on Friday, Saturday, and Sunday. The vending machines will be in operation on a 24 hour basis on all three days.

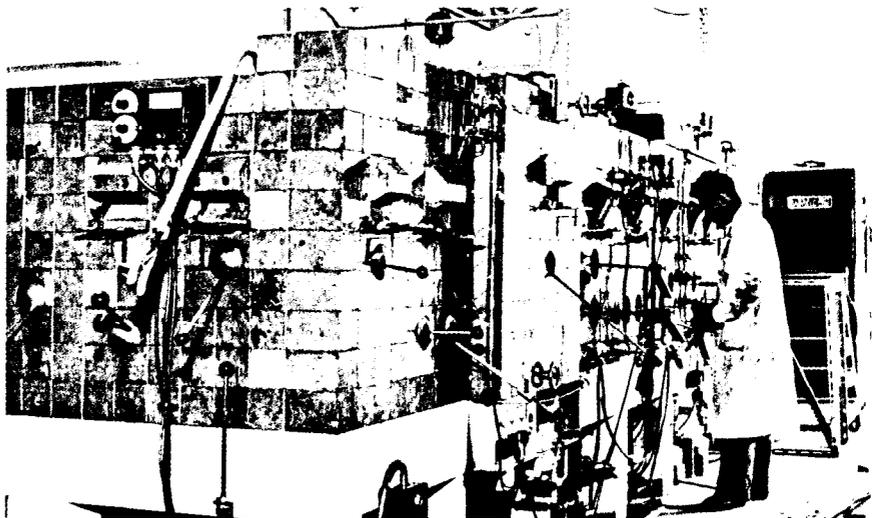
**B.E.R.A.  
ALL EMPLOYEE  
SPECIAL EVENT  
COMING**

Watch next week's BULLETIN BOARD

## GREAT BRITAIN'S HARWELL

With the following article on the Atomic Energy Research Establishment (AERE) at Harwell, England, the BULLETIN BOARD continues its series on BNL's sister laboratories in this country and similar laboratories abroad.

The Atomic Energy Research Establishment (AERE) at Harwell, Berkshire, is administered by the United Kingdom Atomic Energy Authority and undertakes most of the basic research into the materials of atomic energy in Great Britain. The Harwell establishment could be described as the British counterpart of BNL. The total staff of Harwell and its outstations is about 6,000; of these nearly a quarter are professional scientists or engineers, a third auxiliary and administrative staff, and the remainder skilled workers and other industrial staff.



Lead-walled cells in which gamma-active isotopes are handled remotely, by means of tongs, at the Isotope Production Unit.

The AERE was formed in 1946, drawing the nucleus of the original staff from the wartime atomic bomb team and the Chalk River Research Laboratory in Canada, together with scientists from other government laboratories, industry and universities. Within three years, several major pieces of equipment were in operation, including two research reactors (the Graphite Low Energy Experimental Pile and the 6,000 kW British Experimental Pile), the MeV electrostatic accelerator and the 166 MeV synchrocyclotron. This accelerator is used for a wide range of experiments, especially on proton-proton and neutron-proton scattering.

For the first three or four years, research was directed mainly toward obtaining the scientific information needed to design and construct the plants for producing fissile material. In spite of the urgency of this work, time was found to think about applying nuclear fission to the generation of electrical energy for peaceful purposes. Due to the shortage of fossil fuels, Great Britain devoted greater effort to developing reactors for the generation of useful electrical energy than the United States. From 1950 onwards, more and more effort was given to this work and the all-important supporting technology.

(continued on page 2)

**Harwell Atomic Laboratory - continued**

Between 1950 and 1953, the feasibility study for natural-uranium gas-cooled power reactors was carried out. Several zero energy reactors were built to study the physics of different systems. A swimming pool reactor called LIDO was built for shielding and thermal lattice experiments; and two high-flux heavy-water-moderated reactors, DIDO and PLUTO (regarded primarily as materials testing reactors) came into operation in 1956 and 1957.

The growth of work on reactors led to a decision to open a second Research Group establishment which would concentrate on this work. Most of Harwell's work on reactor systems, together with several of the zero energy reactors, was transferred to this establishment, now known as the Atomic Energy Establishment at Winfrith.

AERE has also developed the production and use of radioisotopes. A few isotopes were produced in the Graphite Low Energy Experimental Pile, but serious production began with, and has continued in, the British Experimental Pile (BEPO). Situated close to BEPO, the Isotope Production Unit is an outpost at Harwell of the Radiochemical Centre. In it are handled all the radioactive materials that can be used in the form in which they come from the reactor; those that require processing of any kind are sent straight to the Centre. The principal kinds of radioactive material dealt with are: cobalt-60 sources of high specific activity (in quantities up to 3,000 curies), for medical purposes; very large (100,000 or more curies) cobalt-60 sources of medium specific activity, for industrial irradiation and sterilization; industrial radiographic sources of iridium-192, thulium-170, and cobalt-60, chemical materials or mechanical components irradiated to customer's requirements; and a wide variety of small radiation sources for use in the treatment of cancer.

A neighbor of AERE is the Rutherford High Energy Laboratory of the National Institute for Research in Nuclear Science. This Institute was formed in 1957 as a cooperative enterprise between universities, the U.K. Atomic Energy Authority, and other bodies. It is designated to make available to universities big machines and other installations which would be beyond their individual resources. The machines at the Rutherford Laboratory include a 50 MeV proton linear accelerator and a 7,000 MeV proton synchrotron still under construction. The National Institute is also about to build a computing laboratory at Harwell, to be equipped with a Ferranti Atlas high-speed computer.

Due to Harwell's proximity to the city of London, it is often visited by foreign scientists who have followed its progress throughout the years.

**GREENGYM**

The Committee has been planning your evening's entertainment on March 15 right down to the color of your beer. Shamrocks and shillelaghs enter the conversation as Supply & Materiel, under the chairmanship of Duke Worthington, prepare to present our Saint Patrick's Dance on behalf of BERA.

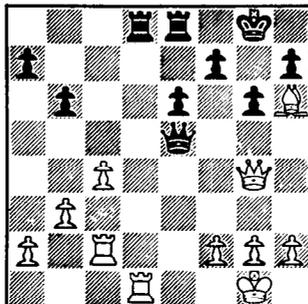
There will be dancing from 9:00 p.m. to 2:00 a.m., music and singing as well as refreshments and fun for all. Remember this is an all employee's dance. Sure you can bring your friends, and also your own bottle.

**BASEBALL BOX SEATS**

On sale soon — details next week.

**CHESS PROBLEM**

In this week's problem, it is Black's move and win. Black is fortunate that it is his Queen and not White's that is on that long diagonal bearing on Black's KN2. One alert move and Black has a win. Answer elsewhere in this week's BULLETIN BOARD.



*Arrivals and Departures*

**WELCOME TO BNL**

AGS		
Mark A. Fitzpatrick		Ext. 2416
Robert S. Frankel		2557
MEDICAL		
Rita J. Duane		2919
Anna Kirkpatrick		2907
PHYSICS		
Gerard J. Mayman		791
John W. Olness		2219
PLANT MAINTENANCE		
Robert L. Mosley		2120
Richard E. Parker, Jr.		2120
Radford J. Sprague		2389
Edward Vaughan, Jr.		639
SUPPLY & MATERIEL		
Philip W. Proferes		

**RECENT DEPARTURES**

CENTRAL SHOPS	
Walter J. Beaver	
PURCHASING	
Jerome F. Wocel	
SUPPLY & MATERIEL	
Richard Roth	

**ST. PATRICK'S DANCE**

Friday, March 15

**BERA ELECTION RESULTS**

When the last ballot was counted it was Mildred O'Neill, John Binnington and Leonard Baker who were elected by our employees to serve on the Brookhaven Employee's Recreation Association's Executive Board for a term of two years.

Leonard Baker, Health Physics, is best known to us for his active participation in the Bowling Leagues, where he is just completing his second year as President of the Bowling Board.

John Binnington, at the Research Library, was elected to our newly formed Executive Board in 1959 and re-elected in 1961. Prior to 1959, he served on the Board as an Activity Chairman for several years. This past year, John was the Vice President of the Board.

Mildred O'Neill, who works at A.G.S., has always been a familiar figure when tickets had to be sold or volunteers recruited for BERA activities.

The newly elected members will take office on March 1, joining present members Lawrence Fuller, Alf Christoffersen and Donald David.

We at this time, would like to thank the other candidates on the ballot, Andrew Kevey, Kurt Jellert and David Thomas, for their active interest in the Association.

**HOLIDAY SPECIAL**

The BNL Cafeteria will serve a "steamboat roast" on Thursday, February 21, from 11:00 a.m. to 7:00 p.m. The meat will be carved to order at a cost of \$.75 (vegetables will be extra). This meal will be served from the regular food-line, and the speed-line to the left will be used to serve carved to order "steamboat roast" hot sandwiches, which will also cost \$.75.

**CHEMISTRY BUILDING  
GROUND BREAKING CEREMONIES**

The ground breaking ceremony for the new Chemistry Building will be held on Tuesday, February 19th, at 3:00 p.m. on the Construction Site (Cornell Avenue and Humboldt Lane).

**ATTENTION BNL BOWLERS**

During the week of February 25, all our league teams will roll in a Special Event Inter-League Competition, sponsored by our Bowling Executive Board. **High Team Gross Series** will be the target. Bowling on their regularly scheduled league night, the team knocking over the greatest amount of pins-plus their handicap will receive five bottles of Spring Cheer.

The winner will be announced the week of March 4.

**BASKETBALL**

League games scheduled for Thursday, February 21, have been postponed and re-scheduled for Thursday, March 14.

**TABLE TENNIS TOURNEY**

**FIRST ROUND RESULTS**

- Garret defeated Beaucage 21-4, 21-14
- Heller defeated Ludkewycz 21-6, 21-12
- Gregoriou defeated Erikson 21-11, 13-21, 21-17
- Chu defeated Reeder 23-21, 16-21, 21-17
- Alston defeated Kokinelis 21-13, 21-6
- Rogers defeated Fuchel 23-21, 16-21, 21-17
- Emanosky defeated Kern 21-10, 21-10
- Kevey defeated Kaplan 21-13, 21-16

**COOKING EXCHANGE GROUP**

The Cooking Exchange Group will meet on Thursday, February 21, from 3:00 p.m. to 5:00 p.m. in the Recreation Building. Baby-sitting is available at \$.50 per mother. Call Mrs. Bresciani, Ext. 719.

**BERA FILM SERIES**

**"VIRIDIANA"**

**Thurs.. Feb. 21 — 8:30 p.m. — Lecture Hall**

"Viridiana" was directed by Luis Bunuel with Silvia Pinal, Francisco Rabal, and Fernando Rey in the cast. This film won the Grand Prix at the Cannes Film Festival.



The story is centered around Viridiana, a young novice, who visits an uncle before taking her final vows. One evening after persuading Viridiana to wear his deceased wife's wedding gown, he drugs her and plans to seduce her. He is unable to go through with the planned seduction, but tells the girl he has. She flees, and he hangs himself. Viridiana inherits half the estate, the other half going to her uncle's son Jorge. Viridiana converts her part of the estate into a haven for beggars, while Jorge is contemptuous of her charity work and takes a servant as his mistress. As the story unfolds, you will see one of the boldest, cruelest and most cynical stories to be depicted on the screen. No matter how one reacts to the story, it is a major cinematic achievement. The story itself cannot begin to convey the emotional force of the film, for within its framework, Bunuel has utilized dozens of minute details to perfection.

"If the film were less well made, if it were not so strikingly written and directed by Bunuel, it could be dismissed as sensationalism. But its artistry is unquestionable. Bunuel has touched on these themes before, but never so well as in this case... The acting is impeccable." — Saturday Review of Literature  
"In 'Viridiana', a strange but powerful film that contains one episode of Goyesque genius, Bunuel attempts to open people's eyes to the evils of sentimental piety and morbid tyranny in Franco's Spain... Seldom in cinema has the nature of revolution been realized with such profundity and expressed with such power." — Time

**BASEBALL BOX SEATS**

On sale soon — details next week.

**TEAM-OF-FOUR CHAMPIONS**

Thanks to a sparkling performance in both bidding and play by Bob and Lennie Schermer, their team, consisting of themselves, Les Lawrence and Sandy Wagner, defeated seven other teams in the annual team-of-four duplicate bridge championship. This was their third successive win.

Mr. and Mrs. Schermer reached several excellent contracts not found by other pairs, and then played them as well as they had bid them.

Les Lawrence chipped in with a masterful bid on this hand:

XXX  
AKX  
JXXX  
AXX

With both sides vulnerable, his RHO opened 1H, he passed, his LHO bid 1S and his partner overcalled 2C. RHO bid 2D and now Les made the fine cue bid of 2H telling his partner that his hand was almost worth an opening bid. Wagner, holding:

AQ  
XX  
9XX  
QJ109XX

bid 2NT and Lawrence raised to game.

With the club finesse losing, 9 tricks were made. The final standings are:

1. Mr. & Mrs. Schermer, Les Lawrence and Sandy Wagner.....13½
2. Mr. & Mrs. Sternheim, Bob Dvorak, and Hazel Williams.....11½
3. Harold Schwarz, Gus Allen, Mr. & Mrs. Sampson.....10

Each member of the winning team will be presented with a trophy.

The next game will be a full master point game and will be held on Thursday, February 28, at 7:45 p.m. in the Recreation Hall. Free coffee and cake will be served.

If you plan to play in the Individual Tournament on March 14, call Bob Dvorak, Ext. 618 (you don't need a partner for this one).

**LOST & FOUND MOVED**

Effective Monday, February 11 the LOST & FOUND service was moved to the Recreation Office, 3 Center Street.

**SOLUTION TO CHESS PROBLEM**

- | WHITE     | BLACK              |
|-----------|--------------------|
| 1. ...    | 1. Q-K5 if         |
| 2. R x P  | 2. Q-K8 mate or if |
| 2. R/2-Q2 | 2. R x R and if    |
| 2. Q-K2   | 2. Q x Q           |
| 3. ...    | 3. R x R           |

**FOR SALE**

1962 FORD - Galaxie 500, hard top, white with red and white vinyl interior, V8, std. trans., r&h, ww's. Immaculate. G. Johnson, Ext. 692 or SH 4-2376.

1962 FORD PICK-UP - 4 wheel dr., r&h, 7 ft plow, low mileage, make offer. AT 6-8974.

1961 FORD - Country Squire, desert gold, r&h, ww's, full power. W. Stuckert, Ext. 639 or MO 5-9320 evenings.

1961 FORD RANCH WAGON - 4 dr., V8, std. trans., 16,000 miles, very clean, mech. perfect. \$1396. Sacrifice. Joe Bauerfiend, Ext. 772.

1958 RENAULT - Dauphine, good tires, runs well. Hard starting - needs carb. \$325. B. Tallon, Ext. 2152

1958 MESSERSCHMITT CABIN SCOOTER - 60 mph/55 mpg. Excell. cond. Plastic top for winter and convertible top for the summer, heater. Shop manual, spare parts and complete set of tools included. Dealer in U.S. Reliable and safe transportation, solves all parking problems (2½ seater, 8 ft long). Have to sell since family grew too large and cannot afford 2 cars. See every policeman turn friendly! \$350. Bodo Diehn, Ext. 732.

1948 STUDEBAKER CHAMPION - Dependable work car, 6 cyl., overdrive, gets about 20 mpg, good running cond. \$60. Ext. 2445.

1961 FALCON - Gray, 4 dr. sedan, r&h, 85 hp., auto. trans., many other extras. 24,000 miles. \$1495. Lou Both, Ext. 2430.

1957 FORD - 2 dr. sedan, 6 cyl., std. shift, r&h, w/w, excell. cond. Must see. Bill, Ext. 2591.

FREE - 4 Crosley tires, wheels & tubes. B. Tallon, Ext. 2152.

SLOOP - 12¾ ft x 11½ ft x 4½ ft x 11 in. C.B. down 4 ft. A deep round bottom boat with springy sheer, shallow water lines and concave garboards, non-pounding, able, dry and fast. Strip built, epoxy glued to last a lifetime. A fine little craft for the man who likes character in hull design. Easy rowing, roller reefing, dacron and S.S. Weight; hull 260 pounds, C.B. 80 pounds. With roller cradle \$675. Paul, Ext. 598 or MA 9-4985.

SEA SKIFF - 20 ft. A.N.A. 1961. 109 hp Grey navy top, side & rear curtains, head, compass, etc. Fast, excell. cond. \$2300. Bob Streeter, Ext. 600.

32 FT. SEDAN CRUISER - Enclosed head, galley with bottled gas stoves (2), sleeps 6 in two cabins, Chrysler Crown powered, with fresh water cooling. Buy now for early spring in the water delivery. \$1800. J. Mann, Ext. 2221.

ELECTRIC RANGE - Frigidaire, like new, late model, large oven. \$95. G.A. Barton, Ext. 2102 or SH 4-2216.

STUDIO BEDS (2) - Brand new, firm inner-spring mattresses and matching boxspring. Original cost \$90. each, selling for \$60. each. Ext. 664.

TV - Emerson, 21 in. console, wooden cabinet, works well. \$50. Ext. 2910.

OIL BURNER - "Silent Glow", 250,00 B.T.U., heats 2000 sq. ft. "Portable", ideal for gar-

age or workshop, used only 3 seasons. \$250. HR 2-0222 between 9:00 a.m. and 5:00 p.m.

REFRIGERATOR - Frigidaire, 1942, 6.9 cu. ft., excell. cond. \$50. AT 6-8644.

COCKTAIL TABLE - "Weiman" traditional mahogany, drawer, two drop leaves, opens to 59 in. x 22 in., very good cond. Cost \$80 - will sell for \$20. Fred, Ext. 2413.

REFRIGERATOR - 10 cu. ft., Coldspot, good running cond. \$55. Kirby vacuum cleaner with all attachments, \$85. Ext. 301-45

UNIVERSAL MERCURY II - 35 mm, split frame (35 to 40 pictures on 20 exposure cartridge). good cond. \$25. Ext. 444 or AT 1-6869 after 5:30 p.m.

MGA TONNEAU - \$12. Hugged bumper-grill guard, like new, \$15. Stock muffler, \$5., TR-3 shop manual, \$5. Transport tonneau, \$4. Boot for top, \$2. New fan belt, points, condenser, \$3.50. Wind wings, \$6.50. Rear leaf spring assembly, \$7.50. Farrell, Ext. 548.

DRAWING SET - Keuffer & Esser, "Mercury", excellent condition. \$13. Sadofsky, Ext. 2709.

ICE SKATES - Ladies' white figure skates, good cond., Size 5. Boy's hockey skates, size 6, excell. cond. C. Davis, Ext. 576 or 2717.

PUPPIES - 4 males, well tempered, from fine stock. Yours for the asking. J. Sondericker, Ext. 2677 or YA 4-6512.

ROLLEIFLEX - f3.5 with 3.5 Schneider Xenator lens, incl. Supplementary lens, filters, case and others equal to new. \$185. Ext. 2222.

**WANTED**

TWIN BEDS - 30 x 74, Ext. 2164.

TYPING JOBS - To be done in my home. AT 6-8510.

HOUSE TO RENT - Bellport, Broohaven or Shoreham. 4 bedrooms, furnished, for visiting Professor - September 1963 to August 1964. Woodwell, Ext. 2543 or AT 6-0798.

Reliable woman will watch children for working parents in her own home. AT 6-8510.

A new play group for children aged 3½ to 5 has been formed in the apartment area. Anyone interested in joining, please call Mrs. Burd, Ext. 501, apartment 22B.

CANOE - Used, in fair condition. Ext. 561 or AT 6-9385.

UKULELE - Size does not matter, interested in instruments in any condition. Fuller, Ext. 2363.

SKIERS - Wanted for auto trip to Stowe on Washington's Birthday weekend. A. Fleitman, Ext. 344.

**FOR RENT**

HOUSE - Shoreham village, 6 rooms, completely refinished inside, 4 bedrooms, new kitchen, living room with stone fireplace, large screened porch and garage. One acre, heavily wooded with large trees, many appliances, excell. oil-hot water heating system, city water. Private beach rights. Available May 1, 1963 through September, 1964. \$150 per month. R.I. Louttit, Ext. 738 or SH 4-3225.

HOUSE - East Setauket, 3 bedrooms, 1½ baths, air conditioned living room and dining room, garage. \$130. per month, one year lease, available April 1. G. Pancer, Ext. 2526 or 941-4780 after 6:00 p.m.

**CARPOOLS**

Three-man carpool looking for fourth member. Deer Park area. Mario A. Manni, Ext. 782.

Established carpool wishes fifth driver from Patchogue area. W.G. Creller, Ext. 301-38.

Paying rider needs transportation from Greene Avenue, Sayville. Ruth Kelly, Ext. 2234 or LT 9-2224.

Relax and take the carpool - leave the driving to us (most of the time). Daily departures from the Farmingdale-Massapequa area. If you live on the South Shore of Nassau and are interested in becoming a member of our transportation service, call Lewis Schatzer, Ext. 2475 for complete details and schedule.

**FOUND**

MITTEN - Child's, white - in Medical Lobby. ADDRESS BOOK - Soc. Sec. 473-38-7795. Found in Gymnasium.

To Claim items - Personnel Services at the Recreation Office, 3 Center Street, Ext. 2808.

**LOST**

WHITE SHEET - Double bed size, with Vise marked in one corner. Last seen on a line near the middle of the laundry drying room on February 12. Finder please call Mary Vise, Ext. 605.

## SCOTCH DOUBLES BOWLING TOURNAMENT

PORT JEFF BOWL

March 30, 1963



Watch THE BULLETIN BOARD for further details.