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.

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 from 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
Rudolph E. 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 ballott 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 Jellett 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 $7.50 (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 TOURNAMENT

FIRST ROUND RESULTS

Garret defeated Beaucage 21-4, 21-14
Heller defeated Lukewycz 21-6, 21-12
Gregoriou defeated Erikson 21-11, 13-21, 21-17
Chu defeated Roeder 23-21, 16-21, 21-17
Aston defeated Kokinellis 21-13, 21-6
Kogers 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. Brescia, 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 novitiate, who visits her 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 loves. 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, crudest and most cynical stories ever 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 Goyescque 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:

\[
\begin{array}{cccc}
\text{A} & \text{Q} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\end{array}
\]

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:

\[
\begin{array}{cccc}
\text{A} & \text{Q} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\text{X} & \text{X} & \text{X} & \text{X} \\
\end{array}
\]

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 Schwarzw, 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
3. R x R and if
4. Q-K2 2. Q x Q
5. .... 3. R x R
FOR SALE
1959 MESSERSCHMITT CABIN SCOOTER - 60 mph/$5 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 green top lens, incl. Supplementary lens, filters, case $200. Bodo Diehn, Ext. 732.
1957 FORD - 2 dr. sedan, 6 cyl., std. shift, r&h w/ h. Excell cond. Must see. Bill, Ext. 2591.
FREE - 4 Crosby tires, wheels & tubes. B. Tallon, Ext. 2152.
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FREE - 4 Crosby tires, wheels & tubes. B. Tallon, Ext. 2152.
1961 FALCON - Gray, 4 dr. sedan, r&h, 85 hp., auto. trans., many other extras, 24,000 miles. $1495. Lou Both, Ext. 2430.
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