

# the Bulletin Board

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## FORTY-SIXTH BROOKHAVEN LECTURE



By: Cavid Erginsoy  
Physics Department

Title:  
"Passage of Charged Particles  
Through Crystal Lattices"

Lecture Hall — Wed., April 21 — 8:00 p.m.

By observing the deflection of alpha particles passing through gold foils, Rutherford and his students proved in 1908 that the atom possesses a small massive nucleus. Early experimenters determined the energies of alpha and beta rays by measuring their ranges in absorbing materials. Every nuclear counter and every biological shield, from a stack of lead bricks to the massive shields at the AGS, depends for its action on the energy losses of fast charged particles in matter. One would suppose that the basic physics of these losses would be by now thoroughly understood. Nevertheless, a strikingly new series of phenomena arising in the passage of fast charged particles through single crystals has come to light in the last two years, and has been under investigation by Doctors Erginsoy, Wegner and Gibson at Brookhaven and Columbia University, as well as by scientists in several other laboratories.

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## FOOD FOR THOUGHT



The photograph above isn't calculated to make you hungry, but you can be sure that the two "salad inspectors" in the picture won't object a bit if that's the result! They are: Nils Grindheim (left), BNL Cafeteria Manager, and Assistant Manager, Al Federice.

Over a cup of coffee (one of the 11,000 brewed each week at the Cafeteria), Manager Grindheim and his co-workers recently described for the BULLETIN BOARD the efforts currently being made to improve the Cafeteria services. They explained that their major aim is to avoid as much as possible the mass-produced, hours-old quality that often accompanies catering to large numbers of people. Instead, they will concentrate on food that is freshly prepared in smaller quantities and greater varieties, served and garnished to individual tastes. In line with this objective, a number of new features (calorie counters beware!) are being introduced into the Cafeteria service. Several of the new items were outlined for us: Cold sandwich plate specials are being featured each day, usually consisting of roasts sliced to order with accompanying salads, at a total lower price than if purchased a la carte. Grilled specials and heroes will also be featured daily at the sandwich bar: grilled cheese, hamburgers, frankfurters, etc. At the hot food service area will be found a full variety of hot meals, including roasts carved by the chef. A help-yourself salad bar features whole, hard-cooked eggs, pickles, and a different salad special each day. Special desserts, including pudding and ice cream parfaits, will offer daily variety and (alas) daily temptation. In addition to food specials such as these, plans are afoot to feature international days periodically, with the theme of the nation-for-the-day carried out not only in menu, but also in decor and dress of the staff. Finally, we learned that special new pieces of equipment are being installed behind the scenes. These will help to facilitate the new features by allowing for the storage and preparation of fresh, varied foods.

The plans outlined by the Cafeteria staff are aimed at giving the best food service possible to the large numbers of people here at Brookhaven who use our

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**FOREST FIRE WARNING**

On Long Island, spring is a time when winds dry out our woodlands. Because of the extensive wooded areas around BNL, we must be extremely careful to avoid starting a fire. These simple fire rules for the Laboratory could prevent a catastrophe:

1. Put cigarettes and cigars into your auto ashtray, not out of the window. The same holds true for pipe ashes and used matches.
2. Consult the Fire Marshal (Ext. 591) before lighting any outdoor fires.

**ARTHUR MURRAY  
DANCE CLASS**

Demonstration and class organization for an advanced Arthur Murray dancing class will be held on Wednesday, April 21, at 8:30 p.m. in the Recreation Building. If enough beginners show interest, a preliminary class could also be organized.

Two instructors from the Arthur Murray Studio will be on hand to acquaint you with the latest steps, to answer your dancing questions, and to sign you up for a ten-week course of instruction. So, if you'd like to improve your dancing, here is your opportunity.

The fee for the course will be \$20.00 per person. Lessons will be held each Wednesday and each session will last for at least one hour.

Bring your wife, husband, boy or girl friend, or come alone and partners will be arranged.

**BERA FILM SERIES****A RAISIN IN THE SUN**

**Thurs., April 15 — Lecture Hall — 8:30 p.m.**

Lorraine Hansberry wrote the screenplay for the moving drama adapted from her own Drama Critics' Circle Award-winning Broadway production. The principal players are from the original cast. The story is one of humor, turmoil, and pathos revolving around a Negro family, the Youngers, living in three crowded, sunless rooms on Chicago's South Side. Sidney Poitier, an Academy Award nominee for this role, plays Walter Younger, a man who sees himself as a "giant surrounded by ants" and who hungers for the achievements that should be the lot of a giant. The dismal routine of their lives is suddenly disrupted when Lena Younger receives \$10,000 from the company that insured her husband. The resulting dissension over the disposition of the money results in a sinewy character study that comes closer than any previous film to defining the Negro point of view.

**SHORT SUBJECTS****BNL Visitors**

On Thursday of this week, the Lab will be host to 30 West Point cadets who will tour the reactors and other points of interest. The Board of Trustees will meet at the Laboratory on Thursday and Friday.

**Dig We Must**

Being installed along Brookhaven Avenue from Center to Rochester Streets is a new telephone duct bank to provide service for the Physics-Mathematics building now under construction.

Just north of the bank, across Brookhaven Avenue, the excavation work is for the installation of a storm drainage system necessitated by the several new buildings in the area.

**3PO**

Tickets for "The Threepenny Opera" are now available. The cast and musicians, not to mention a huge production staff, have been hard at work to make this play a success. Performances will be given for two weekends and all tickets purchased will be honored at any of the showings. "3PO" is expected to be one of the most popular events at BNL, so be sure to buy your tickets early. This is the Theater Group's first musical and a good time is guaranteed by them. Performances: Friday and Saturday, April 30, May 1, 7 and 8. Prices: \$1.00 for employees and family; \$1.25 for guests; \$.50 for children. Ticket sellers are listed below:

DIRECTORS	E. Murgatroyd
AGS	M. Semerjian
APPLIED MATH	J. Friedman
BIOLOGY	E. Hodges
CHEMISTRY	D'Arcy, Nappi, Sayre
COSMOTRON	B. Keck
HIRD	F. Rizzo
HOT LAB	M. Kinsley
IHP	G. Mansfield
MEDICAL	Follenius, Korsos
NUCL. ENG.	Duvall, G. Jones
PERSONNEL	B. Kohler
PHYSICS	Einfeldt, Towey
REACTOR	E. Holz
RECREATION	M. Walters

**FOOD FOR THOUGHT -continued**

Cafeteria — from approximately 1,600 per day in the winter to some 2,500 persons daily during the summer months. As you may know, the BNL Cafeteria is operated by Automatic Retailers of America, Inc. (ARA), under contract to Associated Universities. ARA was incorporated in 1959, joining together many old, established service firms. In 1961, it acquired the Slater Food Service, which had formerly held the Brookhaven contract. Now one of the nation's leading service companies, ARA provides food and other services for schools and colleges, business offices and industrial plants, government installations, retirement homes and hospitals, etc., in forty states, Puerto Rico and the Virgin Islands. Here at the Laboratory, Nils and Al head up an ARA staff of 19 persons. Food for large groups is not new to either of the men. Nils, who has been at BNL since last July, attended trade schools in his native Norway and served as chef and chief steward on Norwegian ships as well as in restaurants. Al started out in the restaurant and food business with his father in New York City and served for eight years in a large company cafeteria before coming to Brookhaven in November.

The ARA staff at our Cafeteria cooperates closely with Laboratory officials and the BNL Cafeteria Committee, consisting of Garman Harbottle, E.J. Hunter, and J.S. Washburne. Each member of these groups is seriously concerned with providing top-notch cafeteria service for Brookhaven. Their repeated theme is "TELL US" — what you don't like, what your suggestions are, what questions you have. Any member of the Committee may be contacted by phone or mail, and either Nils or Al is on the Cafeteria floor during all serving hours. So, march right up with that food item which displeases you, or philosophize in prose at greater length — but **communicate**. We promise, you couldn't find a deaf ear if you tried!

**PERSONNEL SERVICES****RECREATION OFFICE — 3 CENTER STREET****Tennis Rackets**

A stock of rackets is now on hand for resale at a discount.

**Gloves, Bats and Balls**

We now have a supply of baseball and softball gloves, and softball bats and balls for sale at a savings.

## TABLE TENNIS FINALS

This Thursday, April 15, at 12:15 p.m. in the Gymnasium, defending titlist Dave Cox will meet Joe Smith for the 1965 table tennis singles championship. Joe enters the finals after besting former champion Sid Heller in a five-game match. On his way to the finals, Dave conquered Kurt Fuchel, Steve Feldberg and Andy Kevy.

Next Tuesday, April 20, 1964 doubles champions Cox and Smith will put their title on the line in this year's event with finalists Sid Heller and George Rabowitz, who passed Foley and Hein in the semis.

Trophies will be presented to the singles winner and runner-up and to the doubles champions.

## BERA BASKETBALL

Well, the season is over and the Old Timers are the champions – a repeat from last year. The championship game was an exciting one in front of small but vocally enthusiastic audience. The first half ended with the Old Timers leading 19 to 18. Their scoring was evenly distributed, while Herm Haller carried the attack for the Dirty Sox. The second half was a different game. The Old Timers' experience started to tell and they pulled away on the hook shots of Frei and the smooth setting up of plays. The Sox concentrated on getting the ball to their high scorer, Haller, but it was a losing game. Final score: 41-30, with the Old Timers receiving a championship trophy.

## GOLF MEMBERSHIP INFORMATION

Now that the first rush of BERA Golf Association members is over (278 became charter members by beating the March 1 deadline) and the golf courses have opened, others are asking about joining. Any employee or his spouse is eligible for membership. The initiation fee is \$2.00 and the 1965 dues are \$3.00. Application blanks are available at the Recreation Office. Membership in BGA includes greens fee discounts at a nearby course, eligibility for tournaments, equipment purchase discounts, group lessons (extra charge), handicap service, locker service (extra), loan of equipment, instruction books, etc.

Members are reminded to identify themselves with their membership cards for discounts **before** sales are rung up on cash registers.

## BNL BOWLERS WINDING UP SEASON IN FLURRY OF ACTIVITY

This issue of the BULLETIN BOARD comes out during the twenty-ninth and final week of the 1964-65 BERA bowling season. Cheers to the first and second half winners and tears to the also-rans.

### KEGLER'S KALENDAR

**Sweepstakes.** Next week, the week of April 19, is the time for the traditional Bowlers' Sweepstakes Night, featuring a bounteous buffet supper served up by your friendly bowling lane proprietor. The buffet will be held on your regular bowling night and will be served after bowling in all but the Green League. Green League chowhounds will queue up for supper before bowling. Change of time: all leagues eating after bowling will start their sweeps at 5:30. Be on time!

**Roll-offs.** Matches between first and second half winners are scheduled for April 22, but may be rolled-off before that date by mutual consent of the captains. If desired, roll-offs can be bowled simultaneously with sweeps. Arrangements for use of the lanes on other than sweeps night must be made by the competing teams.

**BNL Championships.** The BNL championships have been scheduled and rescheduled. Be prepared for changes. As of press time, these are the latest plans! Men's leagues champions will bowl two of their four matches on Wednesday evening, April 28. The rest of the men's matches, all of the ladies' league matches, and the Mr. and Mrs. league matches will be bowled on Saturday afternoon, May 1, starting at 2:00 p.m. All championship matches will be bowled at the Port Jeff Bowl. Men's leagues and ladies leagues will do battle to determine their respective winners. The matches this year will be spiced with an additional round robin between the lady champs, male champs and the Mr. and Mrs. champs. Participants will be notified of details. There will be no bowling fees for any championship matches. Spectators will be welcome, and scorekeepers needed by the tournament committee. If you'd like to help, call the Recreation Office and volunteer your services.

**Rainbow Tournament.** Sandwiched in between sweeps and BNL championships will be the third annual rainbow tournament at Port Jeff Bowl on April 27 at 6:00 p.m. This contest, which derives its name from the variety of colors in our league names, has become a popular event among the bowling association officers who make the leagues go all year long. Secretaries and representatives from the leagues and officers of the association will meet in a series of matches (usually more social than athletic) and the winner will take home a small trophy as recompense for a year's labor on behalf of the bowling association.

**Bowling Awards Night.** Lastly, Auld Lang Syne for the '64-'65 season comes in the form of the annual Bowling Awards Night. Circle your calendar for Friday, May 7. The bowling board is planning a bigger and better blast than ever before. Watch the BULLETIN BOARD for details, and plan now not to miss it!

### LEAGUE SECRETARIES

Get your reports of winners into the Recreation Office as soon as possible after the last night of bowling this week. You have the forms. Send a copy of your final averages to the Rec. Office, also. Last, but not least, forms for reporting averages to ABC and WIBC must be filled out. These will be sent to you as soon as they arrive. To receive your pay checks, they must be submitted through the Recreation Office.

## UPTON RIFLE-PISTOL CLUB

At the conclusion of the winter industrial pistol league, the BNL team emerged as first place winner in handicap scoring. Top shooters who were awarded individual trophies were: Jim Rutherford (team captain), John Mazzeo, Fred Keute, Mel Hughes and Phil Greenberg.

The win in handicap indicates a marked improvement in all shooters' scores. This should keep the team winning in next winter's league tournaments.

New shooters are needed to help

build a strong, active team. Write Jim Rutherford at Bldg. 480 to find out how the Club can help you get a permit and how you can aid in keeping the team in the winners' circle next season.

The second match of the spring outdoor rifle tournament was held under a sunny sky on Sunday. The 200-yard sharpshooters were Frank German, Al Lukas and Roy Domish, with scores of 145 to 158. There will not be a match on Easter Sunday; next one is on April 25. In case of doubt as to whether weather permits a match, call Roy Domish, SH 4-3109.

## CAFETERIA MENU WEEK OF APRIL 19

### MONDAY

Beef Noodle Soup.....	.15
Roast Veal - Apple Dressing.....	.65
Chicken Tetrazzini.....	.65
Beef Turnover - Brown Gravy.....	.60
<b>Sandwich Special:</b> Roast Beef Sand. on Roll, Pickles.....	.65
<b>Grill Special:</b> Pork Roll, Baked Beans, Glazed Peach.....	.55
Whipped Potatoes.....	.10
Buttered Julienne Carrots.....	.10
Broccoli Hollandaise.....	.10
Buttered Wax Beans.....	.10
Sliced Roast Beef, Cole Slaw Platter.....	.75
Fruit Salad Bowl - Cottage Cheese.....	.60
Sliced Egg & Tomato, Cottage Cheese.....	.60
Peach Crisp.....	.20

### TUESDAY

Potato Leek Soup.....	.15
Swiss Steak.....	.65
Lamb Kabob.....	.65
Sauteed Chicken Livers.....	.60
<b>Sandwich Special:</b> Baked Ham on Hero Roll, Sl. Beets, Sweet Pickle.....	.65
<b>Grill Special:</b> Cheeseburger, Potato Chips, Tomato & Lettuce.....	.55
Whipped Potatoes.....	.10
Lyonnais Potatoes.....	.10
Buttered Peas.....	.10
Harvard Beets.....	.10
Buttered Spinach.....	.10
Ham & Cheese Platter.....	.75
Tomato Stuffed, Chive Cottage Cheese.....	.60
Molded Bing Cherry-Peaches.....	.60
Tapioca Pudding.....	.20

### WEDNESDAY

Philadelphia Pepper Pot Soup.....	.15
Beef Stroganoff - Noodles.....	.65
Ham Loaf - Mustard Sauce.....	.65
Fr. Deep Sea Scallops - Cocktail Sauce.....	.65
<b>Sandwich Special:</b> Pastrami on Hard Crust Rye, Dill Pickle, Potato Salad.....	.60
<b>Grill Special:</b> Grilled Cheese & Bacon, Pot. Chips, Cole Slaw.....	.65
Whipped Potatoes.....	.10
Potatoes au Gratin.....	.10
Celery Souffle.....	.10
Buttered Whole Kernel Corn.....	.10
Buttered Lima Beans.....	.10
Antipasto Platter.....	.75
Pineapple Boat.....	.75
Asparagus Vinaigrette.....	.20
Strawberry Bavarian.....	.20

### THURSDAY

Chicken Corn Soup.....	.15
Roast Fresh Ham - Gravy.....	.65
Grilled Chopped Sirloin au Jus.....	.65
Eggplant Parmigiano.....	.60
<b>Sandwich Special:</b> Corned Beef on Rye, Grilled Tom., Cole Slaw.....	.60
<b>Grill Special:</b> All Beef Franks, Sauerkraut, French Fries.....	.45
Whipped Potatoes.....	.10
Sweet Potato Pudding.....	.10
Southern Green Beans.....	.10
Cauliflower.....	.10
Baked Zucchini Squash.....	.10
Chef's Salad Bowl - Turkey & Cheese.....	.75
Cottage Cheese - Peach and Banana.....	.60
Tuna & Potato Salad.....	.60
Rice Pudding.....	.20

### FRIDAY

Manhattan Clam Chowder.....	.15
Pan Fried Filet of Flounder, Sw. Pickle Sauce.....	.65
Braised Shortribs.....	.65
Tuna & Noodles Au Gratin.....	.65
<b>Sandwich Special:</b> Crabmeat on Roll, Cole Slaw, Sweet Pickle.....	.65
<b>Grill Special:</b> Grilled Cheese & Tomato, Fr. Fr., Tossed Greens.....	.50
Whipped Potatoes.....	.10
Buttered Mixed Vegetables.....	.10
Stewed Tomatoes.....	.10
Buttered Asparagus Cuts.....	.10
Egg Salad Stuffed Tomato.....	.60
Corned Beef, Potato Salad Platter.....	.75
Peach Date Salad.....	.20
Pineapple Marshmallow Delight.....	.20

## Arrivals and Departures

### WELCOME TO BNL

AGS	
Harold Wroe	Ext. 7790
COSMOTRON	
Anna M. Sell	2320
DIRECTOR	
Dolores Ann Skokna	2357
FISCAL	
Eileen M. Gill	557
MECHANICAL ENGINEERING	
Thomas W. Brown	2138
PHYSICS	
Edward J. Regina	2130
PLANT MAINTENANCE	
John H. Reinwald	2389
SUPPLY & MATERIEL	
Daniel A. Mann	2704

### BROOKHAVEN LECTURE (Con'td.)

Crystals have proved to be anomalously 'transparent' in certain directions. Crystalline effects on nuclear reactions and special collimating actions on penetrating particles have also been observed. In his Brookhaven Lecture, Dr. Erginsoy will tell about these developments.

A buffet supper (\$3.00) will be served at the Brookhaven Center before the lecture, beginning at 6:00 p.m. Reservations should be made at least one day in advance by calling Ext. 2302 before 5:00 p.m. or Ext. 2453 in the evening. Refreshments will be available in the Research Staff Lobby following the lecture.

## CLASSIFIED ADS

### FOR SALE

1963 CHEVROLET II - Nova 400. Station Wagon, r/h, w.w., full wheel covers, luggage carrier, back-up lights. Excellent cond. \$1,750. 751-1644.

1961 STUDEBAKER - Lark, V8, std. trans., pos. traction, 2 dr. Must sell buying new car. \$600. B. Greenberg, Ext. 359 or GR 5-7539 after 6 p.m.

PIANO - Mahogany, Lester Spinnet model. Good condition. Real easy action on all keys and pedals. \$250. Call HR 3-2523.

COLONIAL DESK AND NIGHT TABLE - Solid honey-tone rock maple, very good condition. Both for \$65. Call HR 3-2523.

BUNNIES - Live rabbits. \$2.00 each. YA 4-3528 after 6 p.m.

TIRES - Two 7.50x14 tubeless. \$7 each. F. Rumph, Ext. 2221.

DIME COLLECTION - Complete Roosevelt dime collection, in Whitman folders, \$10 ea. Lincoln, Jefferson, and all hard to collect coins sold. Call 281-8858.

TYPEWRITER - Underwood/Olivetti with carrying case. In excellent cond., hardly used. Cost \$120., will sell for \$75. Ext. 558.

CAR RADIO - 6 volt pushbutton AM, \$15. Also electovoice 623 microphone. This dynamic mike will really improve the quality of your home tape recordings. P. Liberman, Ext. 7732.

WURLITZER PIANO - 12 yrs. old, excellent cond., light wood finish, console model. \$350. AT 6-0607.

SHARPENER - Reel type foley for lawn mower. \$65. Call after 6 p.m. BR 3-3935.

### WANTED

UNFURNISHED HOUSE - 2 or 3 bedrooms. Ext. 7119.

MALE PUPPY - Large feet, short hair, sturdy stock. Free. Ext. 2375.

ALUMINUM STORM DOOR - 3'5"x6'8", B. Sehgal, Ext. 2741.

HOMES - For 4 kittens, 6 wks. old, assorted colors, SH 4-5552.

HOUSE - 2 or 3 bedrooms in or near Bellport for month of July. Call MacDougall, Ext. 7776 or 2315.

HOUSE - Unfurnished or partly furnished 3 bedrooms. In Bellport, Brookhaven or East Patchogue. S.D. James, Ext. 7795 or 2803.

BABYSITTER - For nice children ages 4, 6, and 9. Approximately five full days needed, while mom's in hospital. Bellport area. AT 6-1145.

HOME - For four 6 wks. old kittens; red male, black male, 2 grey females. Bob, Ext. 2478.

### CARPools

RIDER-DRIVER - Needed for 2 car driving team, vicinity South Ocean Ave., Patchogue. W.G. Celler, Ext. 2869.

RIDER - Wishes to join or form carpool from Commack area. V. Polywoda, 543-0211 after 6 p.m.

DRIVER - Wanted for existing carpool between Wantagh and Brookhaven Lab. Meet in public parking lot on Wantagh Ave. (2 blocks south of Southern State Parkway.) A. Laurine, Ext. 448.

PAYING RIDER - Looking for ride from Syosset, near L.I. Expressway. Ext. 2822.

DRIVER - Wishes to join carpool from Dogwood Dr., Overhill Rd., Wading River area. C. Phillips, Ext. 2234 or 929-4472.

DRIVER - Wanted for established carpool in Bayport area. R. Springsteen, Ext. 2746.

RIDER - Interested in joining existing carpool or willing to share driving from Riverhead (Osborne Avenue). Pat, Ext. 7691.