

the Bulletin Board

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APRIL 21, 1965

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.

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.

ARBORETUM TOUR FOR STAFF WIVES

Mrs. Karl D. Hartzell has extended a cordial invitation to wives of BNL staff members to tour the gardens and green houses of Planting Fields Arboretum, S.U.N.Y., Oyster Bay, on April 27. Buses will leave the Brookhaven Center at 9:30 a.m., carrying a **limit** of 125 persons. If you'd like to participate in this interesting trip, send one dollar for bus fare, along with your name, address and telephone number, to Mrs. Joan Webster, Administration Building. Requests will be accommodated as they are received. If you have questions, call Ext. 493.

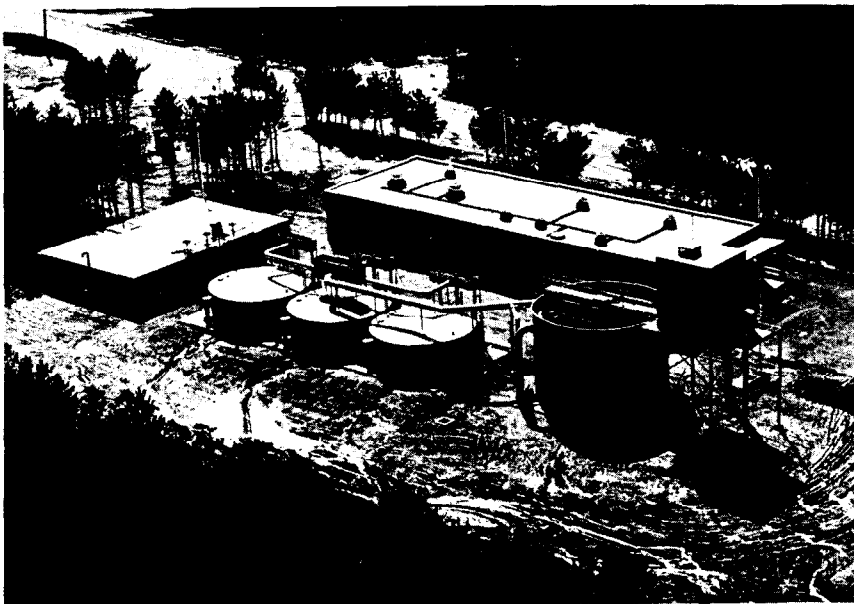
Please bring your own sandwiches for lunch. Dessert and coffee will be served by our hostess.

DON'T FORGET



The "watchword" is forward. That's the direction to move your clock hands before going to bed this Saturday night: forward one hour. Daylight Saving Time goes into effect in the wee hours of Sunday, April 25.

NEW WATER TREATMENT PLANT FOR BNL



On Tuesday, March 9, the Laboratory's new water treatment plant went "on stream." The need for such a facility had been apparent for the past several years: BNL, like other Long Island communities, is plagued with iron-bearing water. Disagreeable taste; brown stains on sinks, glassware and kitchen utensils; plugged heat exchange equipment and scientific apparatus - all have given eloquent testimony to the nuisance value of iron in our well water.

The new plant is located on Upton Road just north of Cornell Avenue. As shown in the photograph, it is composed of (clockwise, from lower right); an aerator; three gravity filters; clearwell, or storage reservoir; and a service building which houses pumps, chemical feed equipment and the control center.

Briefly, the treatment process consists of aeration to oxidize the iron from the soluble ferrous state to the relatively insoluble ferric state. Hydrated lime is fed to the raw water to neutralize CO_2 and raise the PH. Following the aeration and chemical addition, about thirty minutes' retention time is provided for the reaction to go to completion. Gravity filtration through a sand bed removes the precipitated ferric oxide. As the water leaves the filter and passes to the clearwell, or storage reservoir, chlorine is added as insurance against bacterial contamination. The final step in the treatment is to add a very small amount of polyphosphate in order to keep in solution any trace amounts of remaining iron.

During 1960, the domestic water consumption at the Laboratory averaged 1,150,000 gallons per day, with a peak of 1,800,000 gallons. The average daily consumption figure during 1964 was 2,600,000 gallons, with a peak of 3,960,000 gallons. It is anticipated that the consumption figures for 1965 will be even greater. (In addition to the domestic water supply system, the Alternating Gradient Synchrotron and Medical Department research facilities are serviced by separate cooling water systems from separate wells.)

Before the start-up of the water treatment plant, BNL's domestic system was supplied by four well pumps directly connected to the distribution system at four widely separated points. Now, all water enters the distribution system at the
(Continued on page 4)

BRIDGE: FOR LADIES ONLY

All women interested in playing bridge once a month are invited to contact Pat Tunney, telephone number 281-5965. We are especially interested in interested newcomers! Sessions will be in the evening, and two groups will be set up—one for serious players and the other for "sociable" bridge.

Arrivals and Departures

WELCOME TO BNL

CENTRAL SHOPS
Frank V. Bay Ext. 445
John J. Doyle 577
MEDICAL
Drori Ben-Ishay
Jane Goldstein

RECENT DEPARTURES

AGS
Bernard Thevenet
PHYSICS
Hilda S. Cannan
SYSTEMS & ADMIN. DATA PROCESSING
Francis M. Enright

PERSONNEL SERVICES

Recreation Office — 3 Center Street
Daily 9:00 a.m. — 1:00 p.m.

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.

MICROMET

There is still a small supply of 1 lb. and 8 lb. cans of Micromet available.

RENTAL LIBRARY

Included among the new books recently received are:

Flight of the Falcon	D. duMaurier
Funeral in Berlin	L. Deighton
Hotel Mamie Stover	W.B. Heui
Here Goes Kitten	R. Gover
A Pillar of Iron	T. Caldwell
The Golden Keel	D. Bagley

SEAT BELTS

A limited supply of seat belts is available.

OTHER STOCKED SALE ITEMS

Among other items stocked for sale are: Adult Physical Fitness pamphlets, batteries, film, flashbulbs, film processing service, athletic socks, tennis balls, and badminton birds. Also on hand is a supply of "How to Improve Your" books on tennis, bowling, swimming, golf, archery, fencing, fishing, judo, badminton, basketball, table tennis, and skin and scuba diving.

EXPECTANT MOTHER'S CLASSES

A series of expectant mothers' classes is scheduled to start on Thursday, May 6, from 1:00 to 3:00 p.m., at the Suffolk County Health Center, 15 Horseblock Place, Farmingville. Sponsored by the Suffolk County Department of Health, the course will consist of six sessions featuring group discussions and demonstrations. Registration is open to all expectant mothers and there is no fee. To register, telephone Miss O'Leary, 732-7071, Ext. 854.

WANTED

Scorekeepers for BNL bowling championship matches on Saturday, May 1, Port Jeff Bowl, at 2:00 p.m. Call Jerry Weiss, Ext. 2472.

SOFTBALL ENTRIES

The softball season is scheduled to begin on May 4. Schedules and rules will be sent to all captains next week. Our eighteen teams have been divided into three leagues which will play fifteen weeks (three rounds). Team names, departments and captains are as follows:

Atom Busters - Supply & Materiel
Louis De Rosa, Ext. 7172; Bldg. 194
Back Bones - Grounds Maintenance
Ed Vaughan, Ext. 639, Bldg. 326
Blue Jays - Plant Maintenance
Paul Kelly, Ext. 2382; Bldg. 422
Braves - Physics
Dick Albert, Ext. 7689, Bldg. T109
Cosmotron - Cosmotron
J. Lypecky, Ext. 676; Bldg. 902
Deadwoods - Arch. Planning
Jack Brennan, Ext. 2814; Bldg. 134
Dirty Sox - A.G.S.
E. Egler, Ext. 2346; Bldg. 911
A.G.S. Floorwalkers - A.G.S.
Wm. Roelofsen, Ext. 2410; Bldg. 911
Medical - Medical
Samuel Miller, Ext. 2877; Bldg. 490
Metallurgy - Nuclear Engineering
S. Epstein, Ext. 2217; Bldg. 480
Mets - Physics
G. Emery, Ext. 2644, Bldg. 510
Mixups - Fiscal
E. Michaelis, Ext. 446; Bldg. 134
Odd Balls - Cosmotron
Jack Baer, Ext. 2114; Bldg. 902
Old Timers - Nuclear Engineering
M. McKenna, Ext. 7121; Bldg. 801
Potsareebies - Nuclear Engineering
R. Carciello, Ext. 2200, Bldg. 801
Tritons - Health Physics
R. Champagne, Ext. 645; Bldg. 535
Bubble Boys - Physics
Jerry Andritz, Ext. 7677, Bldg. 919
F. Bagamary, Ext. 2430; Bldg. T109
Phoubars - Photography
E. Collins, Ext. 2812, Bldg. 185

LEST WE FORGET

To a Bowling League Secretary

A secretary's lot is woe
And heaps of aggravation--
It's won and lost and who did what?
And constant calculation.

A secretary's life is no
Fit form of recreation --
His ulcer's up, his average down
From constant irritation!

The secretary racket has
No form of consolation--
The season's done, the prizes won
And he get imprecations!

But here's a toast to Our Man who
Has kept our tabulations--
We didn't mean those cuss words, boy
Well done! Our salutations!

KEGLERS' KALENDAR

Tuesday, April 27: **Rainbow Tournament**, Port Jeff Bowl, starting at 6:00 p.m.

Wednesday, April 28: **BNL Championships**, First Half. Men's league will roll first two of their four matches at Port Jeff Bowl, starting at 6:00 p.m.

Saturday, May 1: **BNL Championships**, Second Half. All league champions will engage in final matches at Port Jeff Bowl, starting at 2:00 p.m. Spectators and cheering section welcome.

Friday, May 7: **Bowling Awards Night**, "The Sidewalks of New York." Start planning your table decorations now.

SUMMER BOWLING LEAGUE

Entry blanks are now available at the Recreation Office for those wishing to join our summer mixed league.

It is planned to start the season the week of June 1 if enough team entries are received. Teams will consist of four regular bowlers and it is recommended that each team have two substitutes. Bowlers must be a BNL employee or the spouse of an employee.

The league will be handicapped so that newcomers can join the fun. The season will run fourteen weeks, ending August 31. Entry fees have been set at \$2.50 per bowler. Trophies will be awarded for first place and individual highs. Last season's league bowled at Port Jefferson on Tuesday evenings at 6:30 p.m. However, the entry blank offers a selection of nights and bowling alleys. If necessary, a meeting of team captains will be called to determine the time and place.

Entry blanks, accompanied by fee payment, must be submitted by May 21.

ATTENTION B.G.A. GOLFERS

Our first tournament began on April 17 and runs until May 2. Don't forget to use the scorecard stamped BERA for your tournament score and send it to Jerry Weiss.

All tournament prizes will be golf merchandise from the Middle Island Country Club Pro Shop. The value and number of the awards will depend on the number of contestants. If you win a prize which you do not need, it may be exchanged for equal value of other items in the Pro Shop.

Golf rule books are now kept in the golf lockers in the Gymnasium and are available for members to borrow. A B.G.A. membership list is posted on the Recreation Office bulletin board so that you can know who your fellow golfers from BNL are.

All golfers entering the tournament will play from the red tees at the course.

CAFETERIA MENU WEEK OF APRIL 26

MONDAY

Split Pea Soup.....	.15
Roast Sirloin of Beef au Jus.....	.65
Veal Fricassee over Rice.....	.70
Swedish Meatballs, Mushroom Sauce....	.65
Sandwich Special: Kosher Salami, Hard Crust Rye, Pickles, Tomato.....	.60
Grill Special: Cheese & Bacon, Potato Chips, Cole Slaw.....	.65
Whipped Potatoes.....	.10
Hashed Brown Potatoes.....	.10
Buttered Spinach.....	.10
Green Beans Amandine.....	.10
Steamed Rice.....	.10
Chicken Salad Platter, Spiced Peach.....	.75
Cottage Cheese, Melon, Mixed Fruit....	.60
Mixed Vegetable Salad.....	.25
Butterscotch Pudding.....	.20
Fresh Fruit Cup.....	.20

TUESDAY

Beef Barley Soup.....	.15
Baked Chicken, Dressing.....	.65
Beef Stew.....	.65
Breaded Pork Cutlet, Applesauce.....	.65
Sandwich Special: Pastrami on Rye, Cole Slaw.....	.60
Grill Special: Italian Sausage on Roll, Onion & Pepper.....	.65
Whipped Potatoes.....	.10
Oven Browned Potatoes.....	.10
Parslied Carrots.....	.10
Buttered Summer Squash.....	.10
Ham Salad Stuffed Tomato.....	.75
Fresh Fruit Platter.....	.60
Relish Plate No. 4.....	.25
Rice Pudding.....	.20

WEDNESDAY

Cream of Tomato Soup.....	.15
Grilled Ham Steak.....	.65
Chicken Pot Pie.....	.65

(Cont'd on page 4)

COX DEFEATS SMITH FOR TABLE TENNIS TITLE

Runner-up, Joe Smith (left) and champion Dave Cox.

In one of the more stimulating championship matches of recent years, Dave Cox, defending table tennis champion, was forced to come from behind to defeat a stubborn and hard-hitting challenger, Joe Smith. The exciting final went the full distance, as the championship was decided in the seventh and final game.

In the first game, which was indicative of the following six, Smith defeated Cox 25-23, with the score tied and the lead exchanged constantly throughout. Smith then built up a 2-0 lead as he defeated Cox decisively 21-10 in the second set.

Recovering, Cox rallied to take the third and fourth games, 21-16 and 21-14, knotting the score at 2 all. The challenger then stopped Cox' momentum in game five by taking it 21-14. Not to be outdone, Cox bounced back in number six to win 21-12 and tied the score at 3 games each.

With first place honors riding on the seventh and final game, Smith tried valiantly to hold off the Cox offensive attack. But Dave proved just a little too strong, as he went on to win 21-18, taking the game, match, and table tennis singles championship at BNL for 1965.

Trophies were presented to the champion and runner-up by George Sabine on behalf of BERA. Congratulations to all participants in the table tennis tourney for their display of sportsmanship and skill.

BNL NIGHT AT JONES BEACH: TICKET DEADLINE EXTENDED TO JUNE 15

Saturday evening, July 3, has been designated as "BNL Night" at The Jones Beach Marine Theater's performance of Guy Lombardo's "Mardi Gras." Employees may obtain tickets at a higher-than-usual discount by sending the order blank below directly to the specified agency **before** June 15.

Please send me regularly \$5.00 tickets at \$3.75 each and
regularly \$4.00 tickets at \$3.00 each to the July 3rd performance of MARDI GRAS
at the Jones Beach Marine Theatre.

Enclosed find \$..... check ☐ cash ☐ money order ☐

Name: Date:

Address: Tel. No.

Mail to: Navarro Enterprises, Inc. - Jones Beach Theatre
Special Events Representative
244 East 46th Street, New York 17, N.Y.

WATER TREATMENT PLANT (Cont'd)—

corner of Cornell Avenue and Upton Road. The change in flow pattern has stirred up sand that has accumulated over the years in the system. It is possible that some of this, along with bits of Oakum, will find its way into pump suction strainers, valves and other equipment using water. This condition may persist for another two to three weeks. A program of hydrant flushing is now underway in order to shorten the time required to completely rid the system of sand and Oakum.

CAFETERIA MENU (continued)

Savory Meat Loaf.....	.65
Sandwich Special: Sliced Turkey on Roll, Cole Slaw, Pickle.....	.65
Grill Special: All Beef Franks, Sauerkraut French Fries.....	.45
Whipped Potatoes.....	.10
Buttered Peas.....	.10
Buttered Brussel Sprouts.....	.10
Sliced Roast Beef, German Pot Salad....	.75
Tri-Fruit Platter.....	.60
Country Style Tomatoes.....	.25
Fresh Strawberries.....	.25

THURSDAY

Chicken Gumbo Soup.....	.15
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LUNCHEON SPECIAL

Juice
Baked Ham
Mashed Potatoes
Buttered Peas
Tossed Salad
Assorted Relish Dish
Pudding
Nuts & Mints
Beverage
.99

Whipped Potatoes.....	.10
Buttered Mixed Vegetables.....	.10
Buttered Broccoli Cuts.....	.10
Western Salad Bowl.....	.75
Tomato Stuffed w/Veg. Cottage Ch.....	.60
Melon Fruit Salad.....	.25
Dutch Apple Cake.....	.20

FRIDAY

Manhattan Clam Chowder.....	.15
London Broil.....	.65
Seafood Newburg over Rice.....	.70
Codfish Cakes, Tomato Sauce.....	.65
Sandwich Special: Sliced Turkey on Roll, Cole Slaw, Sweet Pickle.....	.65
Grill Special: Grilled Cheese Sandwich Tomato, Fr. Fr., Tossed Greens.....	.50
Whipped Potatoes.....	.10
Italian Green Beans.....	.10
Buttered Peas.....	.10
Tuna Mousse Platter.....	.75
Banana Split Salad.....	.60
Asparagus and Tomato Slice.....	.25
Fresh Strawberry Shortcake.....	.25

CLASSIFIED ADS**FOR SALE**

1962 VOLKSWAGON - 37,000 mi. original owner. \$1,150. B. Schneider. Ext. 2843 or 732-7467 after 6 p.m.

1961 RAMBLER - Classic, 6 cyl. std. trans. 4 dr. sedan, r/h, reclining seats, very good cond. \$695. K. Otnes, Ext. 7620 or AT 6-0060.

1962 MERCURY - Meteor in showroom cond. with std. trans., any reasonable offer. Call AT 6-9260.

1958 MERCEDES BENZ 190 - Excellent cond., very low mileage. Exceptional car. Call AT 6-9260.

1963 PONTIAC - Grand prix. Fully powered, auto. trans., excellent cond., 24,000 miles. \$1,995 or any reasonable offer. Call AT 6-9260.

1958 FORD - Fairlane, V8 auto., 2 dr., new tires, 54,000 miles, new paint Hawaiian bronze & white. Ext. 2586 or 281-8736 after 6.

1963 STING RAY - Roadster, fully equipped, lots of extras too numerous to list. Sell for \$2,995 or will consider trade with frustrated XKE owner with '62 or '63 model. Ext. 2912 or GR 5-7217 after 5:30 p.m.

1964 JEEP - Wagoneer, 4 wheel drive, red, ww's, r/h, every extra accessory. 10,800 miles. 4 extra snow tires and wheels. Suitable for beach. Asking \$2,700. FO 8-9808 after 5:30 p.m.

1963 FORD - Fairlane 500 deluxe. 2 dr, 6 cyl., std. trans., excel. cond. Asking \$1,250. Ext. 2807.

13½' SLOOP - Good cond., fast and light weight (170 lbs.) 105 sq. ft. of sail with unstayed mast. Flip up rudder. \$285. P. Hichborn, Ext. 425 or WA 9-4133.

16' THOMPSON - Sea coaster, 25 h.p. Johnson outboard, navy top, running lights, anchor, cushions etc. Best offer after you see it. Ext. 2812 or AT 6-1052.

1960 SKIFF - Hardtop, 2 bunks, head 177 h.p. Chrysler. \$2,600. Ext. 2474.

OUTBOARD ENGINE - 1958, 35 h.p. Evinrude, manual start. Good running cond. \$100. P. Mandel, Ext. 2344.

HOUSE - 2 story dutch colonial in Brookhaven on 1 acre fenced, corner plot. \$22,000. Ext. 7677 or AT 6-0691.

HOUSE - 6 room custom ranch with brick front, 3 bedrms., porch, patio, fireplace, w/w carpeting, double garage, beautifully landscaped lot 150'x100'. Quiet neighborhood near Smithtown. \$18,700. JU 8-7082.

HOUSE - 4 bedrms., split-level house on ½ acres of land with tall trees and well-grown lawn. Large living room and family room (den) 1½ bath, storms and screens, garage. Five minutes walk to schools and shopping center near Rt. 111 and Smithtown by-pass. Available in Sept. J. Chen, Ext. 2432 or AN 5-7492 after 6 p.m.

HOUSE - In Riverhead. 3 bedrms., 1½ baths, new oil burner and siding, insulated. \$19,000. PA 7-2310.

HOUSE - Bellport Village. Hi-ranch. 8 rms., fireplace, garage. Call for appointment AT 6-9515.

HOUSE - Ranch 5 rooms oil hot water heat, alum. storms & screens, garage. In Stony Brook. \$16,000. 751-1253.

SEA GULL 40 - Plus outboard with long shaft. \$85. E. Raka, Ext. 310.

AFRICAN VIOLETS - 1119 Mastic Rd., Mastic. 281-9559.

CARRIAGE - Stroller, chest and crib. All in good shape. \$45. takes all. 281-7665.

ROTISSERIE - Electric, used only a few times like new. Woelfel, Ext. 7686 or JU 8-7082.

MISCELLANEOUS - Heathkit 5" scope, \$50. Heathkit sweep generator, \$45. Speed graphic camera 3¼x4¼, \$60. Lafayette's KT 320 general coverage receiver, \$50. Blue bathroom sink and medicine cabinet, \$15. D. Bowman, Ext. 7773 or 281-5226 after 7 p.m.

CHICKENS - 7 hens, 1 rooster; Barred Rocks avg. 5 lbs. each; going on 3 yrs. old, ideal for soup like Mother used to make. \$1.00 each picked up alive. Also 110 VAC to 6, 12, 24 volt DC power supply, \$10.00. Call Walt, Ext. 2457 or AT 6-0246.

MISCELLANEOUS - Knight-Kit VTVM in perfect cond. \$15. Old Strombert-Carlson hifi portable phonograph. It works. \$15. Call Jeff Ext. 571 or 878-0980 after 6 p.m.

GAS STOVE - Coleman, 2 burner. \$10. W. Kalinowski, Ext. 2457.

JET PUMP - ¾ h.p. Westinghouse motor, pressure switch & gage, used about 3 yrs. \$40. JU 8-4707.

RELAX-A-CIZOR - Like new \$80. Carriage, high-chair, playpen like new. \$30. Call AT 9-0562.

LAWN MOWER - Jacobsen 21" lawn queen reel mower. Has Jacobsen 2 cycle engine. \$35. D. Potter, Ext. 2953.

LAWN MOWER - 24" riding lawn mower, 3 h.p. rotary, three yrs old in very good cond. \$75. Snow blower 18" self propelled 3 h.p. craftsman. Used eight times, like new. Original cost \$179. asking \$75. John, Ext. 2149

REFRIGERATOR - G.G., good running cond., \$15. Hank, Ext. 601 or LT 9-7785.

1957 LAMBRETTA - Motor-Scooter - 2 seater. GR 5-8433.

INTERLUX PAINTS - 2 qts. #351, fiberglass underwater; 1 qt. #350 vinylux bottom paint, 1 qt. #216 thinner. Also 1 qt. of super polyester resin and 30' of ¾" manila line. E. Raka, Ext. 310.

CAMERA - 80mm & projector, like new. Frank Ext. 2390.

TIRES - 2 brand new premium quality tires, 6.50x15, narrow ww's. Forced to sell, wrong size for present car. \$35. Ext. 2912 or GR 5-7217 after 5:30 p.m.

CARPPOOLS

DRIVER - Wanted to complete carpool from Merrick, Freeport, E. Meadow area. C. Ruege, Ext. 451.

PAYING RIDER - Looking for ride from E. Islip. A. Sell, Ext. 2320.

DRIVER - Wanted for established, prompt carpool from W. Babylon, Babylon, Lindenhurst area. M.L. Grant, Ext. 2497.

DRIVERS - Two left for Bay Shore, Brentwood area. C. Hebrance, Ext. 560.