

# the Bulletin Board

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## SCIENTISTS STUDY HALF-BILLION YEAR-OLD METEORITE



Polished surface showing Neumann lines, a twinning of the iron-nickel alloy produced by mechanical deformation, perhaps formed by the violent impact of an asteroidal collision.



Exterior surface of a portion of the Bogou meteorite

### WHAT TIME IS IT?

Commencing Monday, May 6, 1963, the Laboratory fire siren will sound the "All Clear" signal - two blasts of ten seconds each - at noon each day. The first blast will start at exactly 12:00 noon. This will serve to test the fire siren daily as well as to indicate official Laboratory time.

Official Laboratory time is maintained at the Laboratory telephone switchboard and on the clocks installed at the Main Gate. These clocks are checked each morning and are adjusted, as necessary, to New York telephone time.

All clocks at the Laboratory should be kept set to the correct time. The exact official time may be obtained from the BNL telephone operator, as well as by the sounding of the "All Clear" on the fire siren at noon each day.

### TIAA - CREF

Participants in the Laboratory Retirement Plan may elect to have all premiums applied to TIAA, the fixed annuity, or may elect to have a percentage of premiums applied to TIAA and the remainder (up to 50%) to CREF, the variable annuity.

These percentages may be changed once a year, effective July 1. All participants who wish to change current percentages must make application at the Personnel Office **prior to June 1, 1963.**

Several scientists in the Chemistry Department have been cooperating in studies on a meteorite which fell near Bogou, Upper Volta, on August 14, 1962. These studies have been made possible through the courtesy of President Maurice Yameogo of Upper Volta, who has given permission to U.S. and French scientists to retain and study portions of the meteorite. Detailed investigations of its technical, metallurgical and radioactive properties are expected to provide valuable additional information on its history and origin in space.

One-half of the 19-pound meteorite mounted in a display case will be returned to the Republic of Upper Volta for permanent retention. The meteorite has been in the United States since last fall. The scientific facts on the meteorite already assembled as the results of preliminary studies at Brookhaven and Los Alamos Scientific Laboratory confirm that the intensity of the cosmic radiation was constant throughout its travels in space. Its radioactivity was twice that of a fragment of a Soviet Sputnik which fell at Manitowoc, Wisconsin. This proves that the meteor had been in deep space rather than in an orbit near the earth as was Sputnik.

On the basis of preliminary studies at BNL, the meteorite is believed to have been in space for 440,000,000 years - three hundred million years before the era in which dinosaurs were most prevalent.

Research at the Smithsonian Astrophysical Observatory, Cambridge, Massachusetts, detected the presence of a rare iron mineral (Wuostite) never before found on a meteorite. It is believed to have formed on the surface during the last few seconds of the meteor's brilliantly lighted plunge through the atmosphere. Analysis shows that the meteorite consists almost entirely of an iron-nickel-cobalt alloy with only traces of other elements.

Meteorites serve as natural space probes supplementing information provided by man-made space probes. Some of the studies of the Bogou meteorite may help in identifying future fragments falling from space.

Further investigations of the Bogou meteorite will be carried out at fourteen laboratories in the United States and France. The Chemistry Department scientists who are participating in these studies are Drs. Raymond Davis, Jr., Oliver A. Schaeffer, R.W. Stoenner, James C. Cobb, and Sydney Thompson.

## DR. GIAN CARLO WICK ELECTED TO THE NATIONAL ACADEMY OF SCIENCES

Dr. Gian Carlo Wick, Senior Physicist at BNL has been elected to membership in the National Academy of Sciences. The announcement was made this week by the Academy, during the Washington, D.C. meetings of the American Physical Society.



Dr. Wick, who was born in Torino, Italy, received his Ph.D. at the University of Torino in 1930. In the following year, he received a fellowship to spend a semester at the University of Gottingen and a semester at the University of Leipzig in Germany. In the years between 1932 and 1937 he was associated as a research assistant with Dr. Enrico Fermi at the University of Rome, where he later became Professor of Theoretical Physics. From 1948 to 1951 Dr. Wick was at the University of California as a Professor of Physics. In 1953 Dr. Wick conducted research at the Institute for Advanced Study in Princeton, New Jersey.

From 1954 to 1957 he continued his studies at the Carnegie Institute of Technology in Pittsburgh, Pennsylvania, where he also served as a Professor in Physics. During this period he also served as a Consultant to the CERN Laboratory in Geneva, Switzerland. In September 1957 he joined the staff of the Physics Department at BNL. At Brookhaven, Dr. Wick has specialized in the study of quantum mechanics and high energy physics; his research has been especially concerned with the theory of nuclear reactions.

### VISITORS

The Nuclear Engineering Visiting Committee will meet at BNL on Tuesday and Wednesday, April 30 and May 1.

## FINAL CONCERT OF THE BERA SERIES

A reminder that the last concert of the current season will be given by members of The New York Chamber Soloists, on Thursday, May 2, at 8:30 p.m., at the Brookhaven Center. The program will feature works by Beethoven, Britten and Ravel and will close with a performance of Mozart's oboe quartet.

ADMISSION:  
\$3.00 each for employees or family member  
\$3.50 each for guests  
\$1.50 each for persons under 18

### Arrivals and Departures

#### WELCOME TO BNL

AGS		
Clement A. Martins, Jr.	Ext. 2563	
Raymond C. Overton	2563	
BIOLOGY		
Daniel S. Fackre	2324	
INSTRUMENTATION & HEALTH PHYSICS		
Boyd R. Borrill	542	
MECHANICAL ENGINEERING		
Rene J. Massard	481	
PHYSICS		
Werner Tramm		
PLANT MAINTENANCE		
Kenneth A. Raab	2389	

#### RECENT DEPARTURES

CENTRAL SHOPS	
Leonore Towne	
INFORMATION	
Shirley McLaughlin	
PHYSICS	
Cynthia Brunini	
Mr. Wendel M. Marsh, employed in the Security & Plant Maintenance Division since March, 1947, passed away on April 23, 1963.	

### CAFETERIA SPECIAL

Thursday, May 2

Tossed Green Salad  
French Fried Potatoes  
Sirloin Steak  
\$.85

Beginning this week, the Cafeteria will offer a **Daily Breakfast Special.**

Small Juice  
Two Doughnuts  
Coffee  
\$.25

### BRIDGE

There will be a bridge game this Thursday, May 2, at 8:00 p.m., in the Recreation Hall. Coffee and cake will be served.

## BOWLING AWARDS NIGHT

FRIDAY, MAY 10

The Committee has completed final arrangements for the Bowling Awards Presentation Evening. Important facts are: the evening will start at 8:15 p.m.; at 8:30 p.m. sharp the first door prize will be awarded, so get there on time; bowling awards will be presented at this time.

On Thursday May 9, team captains are requested to report to the Gym and select the locations of their team tables. Teams are responsible for individual table decorations (prize will be awarded for the best table). Each team table will be supplied with one bottle of cheer. This may be supplemented as individuals desire. There will be free beer, soda, set-ups, ice, potato chips and pretzels. Mike Greco and his band will supply the music, dancing starts following the award presentation and continues until 2:00 a.m. Sandwiches and hot dogs will be available starting at 11:30 p.m. Three additional door prizes will be awarded at midnight.

This evening is for all regular bowlers and one guest, sorry but no additional guests can be accommodated. Team captains should see their league secretaries to obtain "cheer chits."

### SO YOU NEVER WIN!

Try entering the flounder you caught over the weekend - you may get the surprise of your life! The largest fish entered so far is a 3 pound 0 ounce flounder caught in Peconic Bay. However, "The Average Fish" has yet to be caught, and in this contest a 1 pound flounder has just as much chance of winning as a 2 pound fish.

### GYM CLOSED

The Gymnasium will be closed during the week of May 6 in preparation for the Bowling Awards Presentation Evening.

### LAWN BOOKLET

What are you going to do for your lawn this spring? If you need help, come down to the Recreation Office, 3 Center Street, and get your free copy of the booklet "Planting and Maintaining a Lawn" by Ed Hunter of Plant Maintenance.

### COOKING EXCHANGE GROUP

The Cooking Exchange Group will meet on Thursday, May 2, from 3:00 p.m. to 5:00 p.m., in the Recreation Building.

### TECHNICIANS ARE CHAMPS AGAIN

As is the custom, this year's Bowling Championship was a hair-raiser. The defending champions, the Techs, looked like alsorans about midway through their final game. It looked like they had beat the Galaxies in their last match, but they were worried about the Woodbutchers who had to defeat the Electronic crew in their final game to sweep the tourney. The Techs finished their game and became spectators at the W.B. match. The Milian men looked like a sure thing for about seven frames, then the Electrons began catching up. Going into the tenth, only one mark separated them. In the last frame the Electrons took the match by nine pins. This cost the W.B.'s the game, and 2 Petersen Points, which gave the championship to the Techs.

#### FINAL SCORE

		Petersen Points
Techs	3951	85
Woodbutchers	3897	83
Electronics	3871	79
Galaxies	3741	78
Ah So's	3623	74

### SOFTBALL OPENER NEXT WEEK

Our eighteen captains met last week and approved the league structure and schedule. Action will begin on Monday, May 6, and the competition will see each team play every team in its league three times during the season. The season's finale will be our All-Star Game, which has been scheduled for August 28. The league breakdown is as follows:

#### BROOKHAVEN LEAGUE

1. Untouchables
2. Blue Jays
3. Phoubars
4. Electronics
5. Metallurgy
6. Cosmotron

#### NATIONAL LEAGUE

7. E.A.O.
8. Bubble Boys
9. Upton Downers
10. Medical
11. Dirty Sox
12. Old Timers

#### LABORATORY LEAGUE

13. Chasers
14. Odd Balls
15. Mets
16. Potsareebies
17. Chamber Chaps
18. Kludge

## GOODBYE BROADWAY, HELLO FRANCE

In an amazing display of bridge ability, one of BNL's Teams consisting of Leslie Lawrence and Sanford Wagner, scored 100 out of a possible 100 points in the United States Industrial Bridge Championship. This, pending the outcome of scores from the rest of the country, could possibly earn them the right to represent the United States against the Industrial Bridge Champions of France and England. This contest will take place during an all-expense paid trip to Paris and London for the two winners.

The event, sponsored by the National Industrial Recreation Association, was a par contest consisting of 18 prepared hands being played simultaneously at hundreds of industrial and governmental organizations from coast to coast. On each hand there was a bidding and play problem of considerable difficulty. The winners, playing in excellent form, solved each problem correctly.

A score of 100 is rarely achieved in a par contest. The runners-up in the local competition at BNL, Lee Gaynor and Robert Bowers, earned a fine score of 84 points. This will probably place them in the top 5% of all pairs nationally.

One of the hands that Les Lawrence handled masterfully was this one, coming up with the only line of play that could possibly fulfill his 2S contract:

#### N (LES LAWRENCE)

S 8 6 3 2  
H 9 7  
D 7 4 3  
C Q 7 4 2

#### W

S K 7 4  
H 10 8 5 3  
D K 10 5  
C 9 6 3

#### E

S A Q  
H K Q J 4 2  
D Q J 9  
C 10 8 5

#### S (SANDY WAGNER)

S J 10 9 5  
H A 6  
D A 8 6 2  
C A K J

#### N (LAWRENCE)

S J 5 3  
H 9 7 3  
D A 10 2  
C K Q 7 3

#### W

S Q 4 2  
H Q J 10 5 2  
D J 8 6 4 3  
C -----

#### E

S -----  
H 6 4  
D Q 7  
C A J 10 9 8 6 5 4 2

#### S (WAGNER)

S A 10 9 8 7 6  
H A K 8  
D K 9 5  
C -----

The bidding as it actually occurred was:

E	S	W	N
3C	4C	P	4D
P	5S	P	6S
P	P	P	P

The official bidding (read after the actual bidding was completed) was:

E	S	W	N
5C	5S	P	5NT
P	6S	P	P
P			

The queen of hearts opening was taken by the king, the ace of spades was played and then a small spade. West took the queen and returned another heart to the ace. A trump to the jack was followed by the king of clubs, covered by the ace, declarer trumping. All the remaining trumps were led, leaving this situation:

(continued on page 4)

The king of hearts was led, and Lawrence could see six obvious losers, 3 spades, 1 heart and 2 diamonds. He concluded that the only chance to make his bid was to find the clubs divided 3-3 and one of the opponents with two trump honors doubleton. He took the ace of hearts and cashed three club tricks ending up with the lead in his hand. He then led a fourth club and discarded the losing heart from dummy, West trumping with the 4 spot. The defenders could now only win 2 natural trump tricks as their three high honors had to all be played on the next two trump leads.

The winners earned a bidding and play par on the last hand of the contest by getting to 6S and fulfilling the contract. N-S vulnerable.

**BRIDGE - continued**

<b>N</b>	
S-----	
H 9	
D A 10	
C Q	
<b>W</b>	
S-----	
H 10	
D J 8 6	
C-----	
<b>E</b>	
S-----	
H-----	
D Q 7	
C J 10	
<b>S</b>	
S-----	
H 8	
D K 9 5	
C-----	

A diamond was led to the ace. The club queen was cashed, declarer discarding the eight of hearts, unmercifully squeezing West.

**GIRL'S SOFTBALL**

Here we go -

Quite a few of you girls have said you would like to play softball, and next week the first ball is going to be tossed out.

Some preliminary work has been done for the first get together, which will be held at 5:15 p.m., on Wednesday, May 8. Everyone interested in playing should come to the Recreation Building (York Lane, Apartment Area) prepared to play. At this time we will decide which is the best night for the majority, so come out and express your interest.

The locker room in the Swimming Pool will be open for you to change and shower. Bats, balls and gloves will be supplied by BERA. However, if you have your own glove, bring it along.

**SUMMER BOWLING LEAGUE**

The proposed mixed league will be discussed and organized at a meeting on Tuesday, May 7. The meeting will be held at noon in the Lecture Hall. All persons interested in joining are invited to attend, or to call Bill Bishop, Ext. 2255.

**FOR RENT**

HOUSE - Furnished, in Blue Point. 4 bedrms., 2 baths, dining room, liv. rm. with fireplace, patio, all appliances, ww carpets, completely and attractively furnished. Available August 1 or 15 through June of 1964. S. Pasternack, Ext. 2341 or EM 3-6104 after 6:00 p.m.

HOUSE - Furnished, one bedroom, kitchen, bath, liv. rm. and sun porch, gar., fenced in yard. Good for young couple. AT 4-6310.

APARTMENT - 4 rooms, stove and refrigerator. \$115 per mo. AT 1-7149.

**FOR SALE**

1959 CORVETTE - 230 hp, r&h, new w/w tires, blue & white. \$1800. L.C. Emma, Ext. 2387 or SH 4-2493.

1958 FORD V-8 - 4 dr. sedan, auto. trans., pwr. brakes. In good cond. \$700. G. Strickland, Ext. 2383 or EM 3-6908.

1960 RAMBLER AMERICAN - 4 dr. r&h, auto. reclining seats, 38,000 miles, \$850. firm. Reason for selling: family expansion. Pechar, Ext. 2410 or GR 5-3823.

1940 CHEVROLET - Business coupe, V8, auto., new tires & front end, best offer. 1958 Ford Anglia, 4 cyl., std. shift, 3 speed trans., 4 brand new 6:40x13 tires. \$225. 1958 Plymouth, 2 dr. sedan, V8, std. shift, 2 brand new 7:50x14 tires, good interior, new clutch. \$600. Ext. 2692 or GR 5-8753 after 6:00 p.m.

1953 PLYMOUTH - 4 dr., hardtop, r&h, in good running cond. \$100. AT 9-0243 after 5:30 p.m.

1957 MERCEDES - 220 S, grey, leather interior bucket seats, AM-FM radio, low mileage. Millie, Ext. 2564.

1958 VOLKSWAGON CONVERTIBLE - Red body, black top, new brakes and clutch. \$600. Ext. 301-39 or AT 6-0630 after 6:00 p.m.

1963 CHEVROLET - 409, Super Sport, beige, red interior, 4 speed trans, 4:11 positraction rear, bucket seats, fully equipped. \$2995. Ellen, Ext. 574 or LT 9-4762.

1962 COMET - Std. shift, 6 cyl., 2 dr., r&h, 7,500 miles. Ext. 2293 or SE 2-3338 after 6:30 p.m. \$1800.

1962 VOLKSWAGON - Blue sedan, white interior, radio, w/w, undercoating, sideview mirror. Orig. owner, like new, excell. cond. Asking \$1550. GR 5-9383.

1958 OPEL STATION WAGON - Good cond., good tires, \$350. R. Majestic, Ext. 686.

1960 MORRIS MINOR - 1000, clean, 18,000 miles, w/w, \$595. AT 6-8393 after 5:00 p.m.

1960 CADILLAC - Model 62, 4 dr., hardtop, elec. windows, full power, 6-way power seats, cruise control, air cond., weather-eye. \$3000. GR 5-8268 after 5:00 p.m., or AT 9-1247.

1958 COUNTRY SQUIRE - 9 passenger, r&h, pd & s, new tires, excell. cond. \$800. Ext. 2382.

1955 PLYMOUTH - 4 dr. sedan, 86,000 miles, good running cond., orig. owner. \$100. G. Friedlander, Ext. 619 or EM 3-6884.

1961 VOLKSWAGEN - Pastel blue, white interior, slip covers, radio, undercoating, sideview mirror, safety belts. \$1150. E. Alacca, Ext. 2192 or JU 8-3925.

1950 OLDSMOBILE - 32,000 miles, perfect cond., auto. trans., r&h. Ext. 423.

1954 OLDSMOBILE - Clean, excell. cond. 2 extra wheels, p/s, p/b, r&h, \$275. Bob, Ext. 2265 or AT 9-1568 after 6:00 p.m.

1950 PONTIAC - 2 dr., std. trans. Car has been inspected for 1963-64. \$65. C. Rittler, Ext. 2677 or 426.

1959 GOGOMOBILE - Sport coupe, German import, parts available in New York City, top cond. inside and out, 20,000 miles, w/w tires, 60 miles per gallon. The cutest little car on 4 wheels; real fun to drive. \$295. Adams, Ext. 2407 or GR 7-0488J.

1962 CORVAIR - Sport Coupe. Portable TV, lightweight. 12 watt amplifier, preamp. 2 speakers. SH 4-9724 after 6:00 p.m.

1963 SUNBEAM ALPINE - Convertible with heater, wire wheels and tonneau cover. White with black top. GR 5-2306 after 5:30 p.m.

1955 OLDSMOBILE - 4 dr., hard top, auto. trans., power steering & brakes, good cond. Sadofsky, Ext. 2709.

DKW 3-6 - 1959. 1000, 4 dr. sedan, metallic blue with white roof. White and blue interior. Very good running cond., excell. tires, economical to run, extremely dependable car. Front wheel drive. \$600. A.P. Francois, Ext. 470 or EM 3-6527.

21 FT. TROJAN - Outboard cruiser, excell. cond. Stang, Ext. 379 or LT 9-3269.

BENCH LATHE - With bench, collet set, 3 jaw chuck, milling attachment and many other accessories, incl. motor and switch. In very good cond. Swings 7"x20" and 10" in gap bed. Made in England. AT 6-0614 after 6:00 p.m.

BEETLE CAT SAIL BOAT - \$350. AT 6-0624.

**WANTED**

CRIB - And mattress, used. Jorge Llacer, Ext. 618.

FURNISHED HOUSE OR APARTMENT - To Rent, 2 or 3 bedrooms, Patchogue area, beginning June 25. S. Kaplan, Ext. 2732 or L. Padwa, Ext. 2441.

HOUSE OR APARTMENT - To rent near Lab. for months of June and July. Family with 2 children. Mr. Burd, Ext. 501.

TRAILER - Used, for 14 ft. boat. Ext. 379 or LT 9-3269.

HOME - For kittens, two red, one black. W. Love, Ext. 2647.

VACUUM CLEANER - K. Shimaoka, Ext. 650 or 700 after 5:30 p.m.

HOUSE TO RENT - 2-3 bedrooms, furn. in Bellport area, from May 63 to Sept. 64. Bresciani, Ext. 719.

LAWN FURNITURE - Used, metal. B. Kohler, Ext. 2102.

**FOUND**

EYEGLASSES - Blue-grey frames found on the Softball Field.

REPORTS - 2 Vertex Final Reports, Job No. 1016.

To claim items, call Personnel Services at the Recreation Office, Ext. 2808.

**CARPOOLS**

Wish to join or form a carpool in the vicinity of East Northport. Via Larkfield Rd., Smithtown Bypass and Jericho Trpk. Renee Mone, Ext. 2390 or RL 7-0848.