

that the photoelectric effect is restricted to visible light has already been dealt with by Dr. Hoffmann in his *Physics Today* article.)

I find the quality of ETS's response disquieting. Criticisms of ETS's tests are frequently answered by referring to the care with which the tests are prepared, and the competence and professional standing of those, including outside scientists, who devise and check them. (I am judging particularly by the transcript of the April 2, 1961 "Open Mind" television program, also kindly provided me by ETS, on which appeared Dr. Hoffmann and Dr. Henry Chauncey, the president of ETS. Such arguments are adduced perhaps five times during the program.) One would expect the defense of a challenged question to elicit the best of which ETS is capable. In view of the quality of ETS's defense, perhaps the kindest remark that can be made is that they did not take Dr. Hoffmann's criticism seriously. Some support for this view is provided by the identity of misunderstanding in the test item and their explanation. Instead of submitting the test item to a new and independent scrutiny, it appears that the same person or staff that devised the question was charged with writing the explanation.

Robert Hart
Chicago, Ill.

Brookhaven Didn't Do It

I am writing with respect to the reproduction of Commissioner Haworth's AGS dedicatory address in the December issue of *Physics Today*. We notice that, in line with your previous conversation with me, you scattered throughout the article pictures of various scientists who played important parts in development of nuclear and high-energy physics. Unfortunately, one of the pictures [on p. 24] and its caption do not seem to match. . . . The picture is definitely not that of Rutherford and it seems to be the general opinion of people here that the picture is that of Sir William Bragg. We would greatly appreciate it if this error would be pointed out in one of the future issues with a comment to the effect that pictures and captions were not supplied by BNL. . . . since we did not supply either the pictures or captions it is important to us to clear up any misconceptions that this mistake was made by BNL.

Charles E. Falk, Assistant Director
Brookhaven National Laboratory

I knew Rutherford well and the picture does not look at all like him. I think it is a picture of Bragg. There is a good picture of Lord Rutherford in Andrade's *Short History of the Royal Society*. He was not bald.

H. A. Wilson
Houston, Texas

You've done it this time! Page 24 of your December issue shows Sir William Bragg, not Lord Rutherford.

C. S. Wright
Victoria, B. C., Canada

This is not a photograph of Rutherford but of Sir William Bragg, father of Sir Lawrence Bragg, with whom he shared a Nobel Prize.

Paul Rosbaud
London, England

This man is certainly not Rutherford. He might be Lindemann.

Emilio Segrè
Berkeley, Calif.

I am very shaken by the picture of Ernest Rutherford on p. 24 of the December issue. I remember Rutherford when he must have been about the age of the individual in the picture who looks more like W. H. Bragg, and I really don't think he would have shaved off his hair just for the picture.

Ernest C. Pollard
University Park, Pa.

Having spent a year at the Cavendish Laboratory in the glorious days when Lord Rutherford was Director, I was greatly startled when I looked at the photograph alleged to be that of Ernest Rutherford. I am certain that the man in your photograph is not Rutherford, and I am inclined to believe it is Sir William Bragg, the elder.

William H. Crew
Los Alamos, N. M.

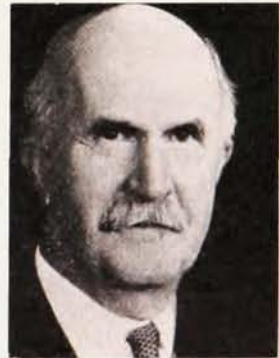
Dear Cobber:

Just don't believe those younguns who told you that was a pitcher of the Baron Rutherford of Nelson and Cam-



Lord Rutherford

The photograph reproduced at left is the second of a pair in our files labeled "Ernest Rutherford"; the first, we were dismayed to discover after the December issue had gone to press, is instead a likeness of Sir William Bragg. As the above letter from Dr. Falk makes clear, Brookhaven National Laboratory supplied neither the picture nor the caption and the responsibility for the fiasco is ours and ours alone.—ED.



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bridge. I'll lay a sheep station that the monica of the bloke you got is Billy Bragg.

Yours from down under,
Robert Jumbuck

It appears to me that an article on the dedication of a high-energy machine should not confuse Sir William Bragg with Sir Ernest Rutherford. Yet that is what has been done in your December issue. The picture on p. 24 is of Bragg, not Rutherford.

A. G. Shenstone
Princeton, N. J.

Quite possibly others will have already drawn your attention to the fact that the photograph is actually that of Sir W. H. Bragg. If that is so, I hope you will pardon me bringing this error to your notice unnecessarily.

N. Feather
Edinburgh, Scotland

Your excellent journal does not very often make a mistake but I would like to point out to you that the photograph appears to be a picture of Sir William Bragg. It is certainly not Ernest Rutherford.

J. F. Allen
St. Andrews, Fife, Scotland

I wonder how many have written thus far to point out that the picture of "Ernest Rutherford" is actually Sir William Bragg.

James Stokely
East Lansing, Mich.

Correction

The following items were omitted in the announcement of the session of the Summer School for Theoretical Physics of the University of Grenoble at Les Houches (*Physics Today*, January 1962, p. 88):

1. A course on "The Sun, Earth Storms and Radiation Belts" will be given by Prof. S. Chapman.
2. A course on "General Circulation and Tides in the Atmosphere" will be given by Prof. G. MacDonald.
3. A limited number of NSF travel grants will be available for US citizens admitted to the Summer School.

Cecile DeWitt
Chapel Hill, N. C.

Advice Wanted

I would greatly appreciate hearing from any person who has a way of improving in clarity, stringency, and scope the considerations of pp. 134-135 of my book *Elements of Solid State Theory*. I once talked to such a person at a meeting, but lost him in the crowd. The primary aim of these considerations is to show that each band is a complete band running from $k = -(\pi/d)$ to $k = +(\pi/d)$. It is perhaps also possible to show that there are no crossings in an energy vs. k plot and that such a plot, taken between $k = 0$ and $k = \pi/d$, consists of monotone pieces of alternate slope. I would also appreciate hearing of theorems valid in three dimensions.

Gregory H. Wannier
Professor of Physics
University of Oregon
Eugene, Ore.