Techniques were required. It is equally absurd now, when peace is such a desperate necessity, to suggest, as men of intelligence are doing, that the motivation provided by the fear of the atomic bomb will alone keep the peace without the aid of techniques. It is quite within reasonable probability that social science can provide these techniques if it is given anything like the amount of support afforded to physical science in developing the atomic bomb.

The notable acceleration since 1930 in the gains made by social scientists, and the presence in the world of perhaps a few dozen of these men who are highly skilled in the techniques of their discipline, augurs well for a trial of the scientific method in discovering ways of maintaining peace. It is not as if a start had to be made from total ignorance. There is already at hand a very considerable body of knowledge as well as steadily increasing excellence in the means of enlarging it.

But while the social scientists seemingly must be responsible for discovering a means of preventing war, if it is to be discovered, the physical, biological, and medical scientists are at present possessed of nearly all the tremendous prestige that goes with the word science. Up to now no authoritative voice of any considerable group of physical, biological, or medical scientists has been raised in support of their co-workers in social science—of those who share their method of observing, classifying, and generalizing natural phenomena.

These more famed colleagues of the social scientist are probably not versed in his recent accomplishments; perhaps they are not fully aware that he uses the same method of science that they use; more than likely they have formed their opinions after listening to quacks posing as social scientists.

Is it not time for physical, biological, and medical scientists, whose prestige is so great, to investigate the work of social scientists thoroughly enough to ascertain whether it is, in truth, science? And if they find that it is, can they not do more toward keeping the peace than merely informing persons in authority, and others, of the terrible consequences of the atomic bomb in case of a war? Can they not unite and give their great influence to support the work of social scientists toward finding techniques by which the peace will be maintained?

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On Opening "Frozen" Vacuum Desiccators

I have read with interest the method for opening "frozen" desiccators described by J. D. Reid (Science, 1945, 102, 483), which consists of driving a single-edged razor blade between the top and body of the desiccator. I have used this method myself successfully, but have always felt lucky that I did not chip or crack the top of the desiccator, since desiccator waxes of thick consistency are sometimes so tenacious that removing the lid becomes a major operation.

The method I have come to adopt is absurdly simple

but always effective, and in the event that someone may not yet have discovered the method for himself I shall describe it here. The desiccator is held under a hot-water faucet, the water being allowed to flow over the edge of the lid. As soon as it becomes warm, the wax softens, and the lid is removed with ease. Only a few seconds are required to perform the entire operation.

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Information Please

In the early 1890's a one-room country school in Indiana was attended by two boys-classmates, both of whom became starred scientists. They have often wondered whether any other one-room country school in the United States has ever numbered two starred scientists among its alumni. The authors of this note, who were the boys referred to above, hope that any reader of Science who knows of a parallel or similar case will present the facts in a communication to this magazine. The likelihood of an occurrence of this kind by pure chance is not known but must be very small. If, as might reasonably be estimated, there is not more than one chance in a thousand that such a school has enrolled even one starred scientist, the likelihood of its enrolling two would be only one in a million on the basis of chance alone. In the instance here reported the laws of chance may have been upset by the fact that the teacher of the boys was exceptionally capable and inspiring.

It is suggested that replies to this appeal include instances of other comparable recognition—membership in the National Academy of Sciences, listing in Who's Who, etc.—and that mention be made of extrachance factors that may have been involved.

B. and T.

The Rumbling of Thunder

Arthur Taber Jones (Science, 1945, 102, 407) calls attention to an especially continuous and pronounced case of the rumbling of thunder on the morning of 30 August 1945, at Northampton, Massachusetts, and cites W. J. Humphreys, who, in *Physics of the air*, lists four causes for the rumbling of thunder: (a) inequalities in the distance from the observer to various points of the path of the lightning; (b) crookedness of the path; (c) succession of discharges; and (d) reflection.

There is no doubt that all these factors enter into the cause of the rumbling of thunder; but there occurs to the writer another cause which he believes to be even more potent than any of the four named above. As is well known, thunder is caused by the sudden change in temperature of the air through which electricity is passing during a lightning flash. In order to understand clearly the operations of the factor about to be described, let it be supposed that lightning flashes between two clouds so situated that the electric discharge comes directly toward the observer. When the discharge starts from the cloud of lower potential, we may assume the number of elec-