ethylene oxide. Although all of the organisms were not destroyed by this treatment, there was a marked reduction in the count.

We wish to emphasize that we have not determined the effects of ethylene oxide on foods intended for human consumption or on practical animal foods other than our stock diet. Processing frequently is detrimental to the nutritional qualities of foods, and desirable changes must be weighed against the damage done. Nevertheless, in view of the afore-described results, it is suggested that foodstuffs, particularly those that may be major sources of essential nutrients, should not be subjected to ethylene oxide treatment until its effects have been established.

EDGAR A. HAWK* OLAF MICKELSEN

Laboratory of Biochemistry and Nutrition National Institutes of Health, Bethesda, Maryland

References and Notes

- 1. C. R. Phillips and S. Kaye, Am. J. Hygiene 50, 270 (1949).
- Anon. Chemical Week (2 Oct. 1954), p. 96.
 Containing alpha-tocopherol acetate 10 mg and Natola (Parke, Davis and Co.) to supply vitamin A 550 USP units and vitamin D 110 USP units.
- units and vitamin D 110 USP units. 4. Salt mixture W, obtained from Nutritional Biochemicals Corp., Cleveland, Ohio.
- Corp., Cleveland, Ohio.
 Containing the following in milligrams per 100 g finished diet: thiamine HCl 0.4, riboflavin 0.6, pyridoxine HCl 0.5, nicotinic acid 4.0, Ca pantothenate 4.0, folic acid 0.2, biotin 0.02, choline chloride 200, inositol 20, and menadione 0.2 in cornstarch. Vitamin B₁₂ (0.02 mg) was added separately as a water-alcohol solution.
- Hunt Club dog meal, manufactured by Animal Foundation, Inc., Sherburne, N.Y.
- These animals were divided into groups having comparable average weights when the treated diet was started.
 The B. globigii spores were supplied through the courtesy
- The B. globigii spores were supplied through the courtesy of Charles R. Phillips and Saul Kaye, Camp Detrick, Frederick, Md. We also wish to acknowledge the valuable technical assistance of Ruth Clary and Samuel M. Takahashi.
- Present address: Medical Department, Upjohn Company, Kalamazoo, Mich.

23 November 1954.

On "Improving Scientific Communication"

It is refreshing to read the clear description that S. M. Garn [Science 121, 7A (21 Jan. 1955)] has given of the diversification in requirements, specifications, and style in the imposing forest of scientific journals. The problem has been in existence a long time. It has been aggravated by the rapid increase in the number of journals in print. Authors have been unduly put upon to adhere to often silly differences among journals. Industrial and government laboratories have found it expedient to maintain files of journal specifications and assign personnel to become familiar with the journal idiosyncrasies. Academic authors must rewrite and check style mechanics with copies of a given journal before submitting an article for publication. Publication of valid research is in jeopardy unless these details are scrupulously adhered to in writing.

I urge that AAAS implement the wise suggestion made by Garn. A small steering committee should outline the items of confusion and invite 10 or 20 editors from the journals of largest circulation to study the problem and meet in plenary session to establish unanimity among the many mechanical impedimenta to manuscript preparation. Perhaps several of the larger trade journals should be included.

With such problems out of the way, authors, editors, and reviewers could devote increased attention to the more difficult problems of clarity and conciseness of expression, accuracy and originality of presentation.

W. H. WALDO

Kirkwood, Missouri

3 February 1955.

Science and Poetry

I have read with great interest the excellent editorial entitled "Science and poetry" and also several stimulating communications on the same subject [Science 120, 17A and 951 (3 Dec. 1954)].

I was delighted to find that Phyllis McGinley was cited as holding the threads of the matter in the palm of her hand. I think she does. Of all her *Love Letters*, her "In praise of diversity" (which Louis Untermeyer, in the *Atlantic Monthly* for December, correctly called an "essay") seems most relevant to the point of issue.

I suggest that no discussion of this subject would be complete without reference to James B. Conant's Franklin Medal lecture of 19 Nov. 1943 before the American Philosophical Society on the general subject "The advancement of learning in the United States in the post-war world" [*Proc. Am. Phil. Soc.* 87, 291 (1944)]. Among other things, Conant had this to say:

Let me now turn from the first category—accumulative knowledge—to the other two which, following Bacon closely, I shall designate as poesy or, if you prefer, poetry and philosophy. Whereas the idea of progress is both valid and significant in the first category, accumulative knowledge, in the other two the concept is not only invalid but a positive deterrent to relevant undertakings. And at this point, lest all but scientists, mathematicians, and archaeologists leave the room in protest, I hasten to assert that I place no halo over the word progress. There is no hierarchy implied in my classification.

Indeed, anyone who wished to give poetry or philosophy an inferior place as compared to accumulative knowledge would soon find himself in an untenable position. For it is obvious that poesy or poetry on the one hand and philosophy on the other together hold the keys to man's immediate future, including the future of the advance of accumulative knowledge. That this is so, current history provides ample proof. Nazism triumphed in Germany not because the Germans were lacking in power to advance learning but because bad poetry and a wrong philosophy prevailed....

One of the chief ends of education is surely to develop the capacity for making civilized judgments on all those matters of value which are involved in so many vital human decisions. Such judgments can be