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of our department. We intend to deposit two bound volumes of these in the university library each year so that Xerox copies can be sent to anyone for the normal cost. In this way we can provide the information whenever it is needed and we can publish the key parts of the research with more brevity. We would also welcome two new avenues of publication: 1000-word summaries and current reviews covering about 10 to 15 papers in one area. We feel this latter exercise would serve to advance the faculty, rather than produce an inchoate mass of publications whose usefulness is in question. This threefold method of publication would save costs, reduce the mass of literature on the shelves, and appreciably increase scientific communication.

Our second area of adaptation causes more concern. It has been our practice to employ undergraduates and high school students in the laboratory. Many of these have become first-rate scientists: all have benefited in increased maturity and responsibility. Now we have to cut them off. If funds from an appropriate agency, such as the Office of Education, could be added to each research grant for this purpose, a real human value would be retained.

In the atmosphere of austerity the overhead which is incurred becomes of real importance and forms a strong point of division between scientists in the laboratory and administrators. Faiman's recent remarks (Letters, 27 Dec., 1968) are pertinent. I suggest that granting agencies require that the use of overhead be explained by the institution to the principal investigators, that discussion of the manner of its use be permitted, and that the agency be aware of what takes place in such discussion.

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What Makes Oysters Grow?

A letter from Adler (29 Nov.) comments on Bardach's article "Aquaculture" (13 Sept., p. 1098). It is Adler's opinion that Bardach created a wrong impression in a statement to the effect that oyster larvae need flagellate algae for food. Adler says further that "Good larval growth has even been achieved with some nonliving substitute food like corn flour." We are not familiar with

any success at rearing larvae with nonliving foods. Either Adler has created a wrong impression of the state of marine animal husbandry, or he knows of a very important breakthrough not generally known to practitioners and scientists in aquaculture. . . .

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The search for artificial foods for marine bivalves and their larvae began in the early 1930's (1). In 1940 Bruce et al. (2) showed that live, naked flagellates were superior to some other algae for rearing larvae and spat. These studies have been confirmed many times during the past 28 years and laid the foundations for present-day hatchery techniques. Investigators have continued to search for other algae or substances which would give better results. Walne (3), evaluating the food value of seven algal species for oyster larvae, found that the diatom Phaeodactylum tricornutum promoted growth comparable to that of flagellates, while Imaya (4) indicated that both Cyclotella nana and Chaetoceros spp. are well utilized. Somewhat questionable results were obtained by Loosanoff and his co-workers (5) by feeding dried powdered Ulva and Laminaria to larvae, but when freeze-dried Schedesmas obliquus was used, Hidu and Ukeles (6) reported excellent results. Corn starch and corn meal or both were employed in oyster feeding experiments by Haven and an enthusiastic evaluation of its successful application was published by Ingle (7). Benoit and his co-workers might discover additional references by consulting the literature or the researchers mentioned above.

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References

- H. A. Cole, Fish Invest. London, ser. 2, 15, 4 (1937).
- J. R. Bruce, M. Knight, M. Parke, J. Mar. Biol. Ass. U.K. 24, 337 (1940).
 P. R. Walne, ibid. 43, 767 (1963).

- P. R. Waine, ibid. 43, 767 (1963).
 H. Imaya, personal communication; G. C. Matthiessen and R. C. Toner, Mar. Res. Found. Inc., Martha's Vineyard (1966), p. 136.
 V. L. Loosanoff and H. C. Davis, Commer. Fish. Rev. 25 (1), 1 (1963); V. L. Loosanoff, Trans. 29th N. Amer. Wildlife Natur. Resour. Conf. (1964), p. 332.
 H. Hidu and R. Ukeles, Proc. Nat. Shellfish. Ass. 53, 85 (1962)
- Ass. 53, 85 (1962).
- 7. R. M. Ingle, Sea Front. 13 (5), 296 (1967).