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### References

1. R. M. May, Stability and Complexity in Model Ecosystems (Princeton Univ. Press, Princeton, N.J., 1973), p. 12. (The 19 percent of figures that are scaleless are diagrams of food webs, and the like, which do not admit of scaled axes: I can lay strong claim to being a scaler.)

### Mr. Wonderfull's Surprize

Constance Holden's report "Food and nutrition: Is America due for a national policy?" (News and Comment, 3 May, p. 548) refers to "meetings [between nutritionists and] General Foods officials" about a cereal called Mr. Wonderfull's Surprize. She apparently got her generals confused. General Foods makes no such product, but General Mills does.

KEN FRANKLIN General Foods Corporation, 250 North Street, White Plains, New York 10625

### Landlubbing Admiral?

In Bruce C. Heezen's review (8 Feb., p. 504) of A. Hallam's book A Revolution in the Earth Sciences (1) the late Harry H. Hess is referred to as (in 1960) "the then-landlubber Princetonian geologist." Rear Admiral Hess, USNR, was such a low-keyed man that his modesty probably prevented some "high-seas" folk from realizing that, during World War II, he arranged for the preservation of data from recording fathometers on U.S. naval vessels plying the seas for other than oceanographic purposes.

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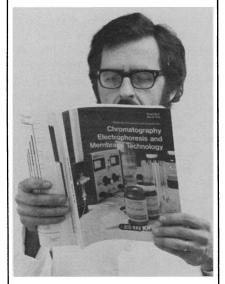
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### References

1. A. Hallam, A Revolution in the Earth Sciences (Clarendon, New York, 1973).

The numerous important accomplishments and renowned abilities of the late Harry Hammond Hess were so solid and impressive that it would be sad to see his substantial record replaced by a fanciful legend. Contrary to what Hallam states in his book, Hess was not a submarine commander. He did command a World War II supply vessel (U.S.S. *Cape Johnson*) and ran a fathometer when the ship's mission took him to the unsounded areas of the western Pacific. To the flattopped seamounts which abound there,

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# (Bio-Rad's new Price List Z)

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he gave the name of the Princeton Geology Building (Guyot) (1). After the war, when he returned to his teaching post at Princeton, his seagoing days ended. He did, however, retain his reserve commission in the Navy, eventually rising to the rank of rear admiral. His annual reserve duty was often served at the U.S. Naval Hydrographic (later Oceanographic) Office, where he contoured deep-sea soundings that had been compiled. At Princeton Hess developed a vigorous research program on the geology of the lands surrounding the Caribbean, which provided stimulating thesis problems for a talented group of graduate students (2). He continued his active personal research in petrology. He also served in a variety of advisory capacities for national and international scientific endeavors.

It does not detract from his impressive record to point out that, contrary to popular belief, Hess played no active part in oceanographic research after World War II, preferring to play the role of critic. To be accurate, the contribution to post-World War II marine geology of Admiral Hess was made at a considerable distance from the sea by a "then landlubber."

BRUCE C. HEEZEN Lamont-Doherty Geological Observatory, Palisades, New York 10964

#### References

 H. H. Hess, Am. J. Sci. 224, 772 (1946).
H. H. Hess, Ed., Geol. Soc. Am. Mem. 98, 1 (1966).

### **Research Chemicals:** Supply and Demand

Certain practices are occurring in the production and distribution of fine chemicals and biochemicals that should be of interest to a large number of scientific researchers dependent upon federal research grants. These practices are not limited to the United States; they are in fact a worldwide problem, occurring in Europe, Japan, and many other countries. Some supply houses, having determined that there is a market for a certain compound or enzyme but that they lack the necessary expertise to produce it themselves, are contacting and hiring as "consultants" scientists who supply them with the compound. Sometimes these compounds are produced in a university or research institute laboratory that is funded by

federal research grants. One example involved a university professor of chemistry who was also vice president of a chemical supply house. His federally funded research laboratory was literally a factory for his supply house, until he was caught and his wrist lightly slapped. These practices occur infrequently; research scientists as a group are relatively free of corruption, and in the United States, federal research funds are used with a high degree of cost-effectiveness.

What is the answer? The existing system, in which Professor X produces compound Y for supply house Z, is efficient and should be retained. Payment of Professor X "under the table" by supply house Z, however, is unethical and should be eliminated. As a practical solution, I propose that Professor X receive a fair payment (perhaps in the form of an honorarium) and that the balance be returned to Professor X's grantor, or Professor X's research fund. There may be better ways of handling the problem; it is basically a question of changing an unethical practice into an "aboveboard" practice.

R. L. KATZMAN 34 Gluskin, Rehovot, Israel

### **Telling Time**

Recent discoveries indicate that birds and insects navigate by using polarized light, even in cloudy weather when the sun is obscured. I quote from a letter James Clerk Maxwell wrote to his father about a device he made in 1848 (1).

I have got a lucifer match box fitted up for polarising, thus. The rays suffer two reflections at the polarising angle from glasses A and B. . . . In the lid there is set a plate of mica, and so one observes the blue sky, and turns the box around till a particular colour appears, and then a line on the lid of the box points to the sun wherever he is. Thus one can find out the time of the day without the sun.

A diagram of the device is included. One is bound to ask whether the eyes of birds and (some) insects have the counterpart of Maxwell's invention in some biological structure.

ARTHUR PORGES

P.O. Box 371, Pacific Grove, California 93950

#### References

1. L. Campbell and W. Garnett, Life of James Clerk Maxwell (Macmillan, London, 1882), p. 122.

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