been the case had he drunk water, because of the dehydration involved, and death was hastened.

In any case, it seems of interest that the lack of an adequate amount of an essential food like protein is likely to be accompanied by more pain than starvation without any food or water. FREDERICK HOELZEL

6659 South Stewart Avenue,

Chicago, Illinois

References

- R. B. Kelman, Science 131, 263 (1960).
 A. Wittenberg, *ibid.* 131, 1562 (1960).
 S. E. Ross, *ibid.* 131, 1563 (1960).
 V. H. Denenberg and G. G. Karas, *ibld.* 130, (200, (1960)).
- **130**, 629 (1959). 5. W. B. Cannon, Digestion and Health (Nor-
- Health and Disease (Univ. of Chicago Press, Chicago, 1916).
 T. H. Fletcher, The A. B.-Z. of our own Nutrition (Stokes, New York, 1903).
 A. J. Carlson, Am. J. Physiol. 45, 120 (1918).
 F. Hoelzel, *ibid.* 82, 665 (1927).
 ..., *ibid.* 73, 463 (1925).
 N. Kleitman, *ibid.* 77, 233 (1926).
 F. Hoelzel, *ibid.* 77, 166 (1926).
 ..., and N. Kleitman, A.M.A. Arch. Internal Med. 39, 710 (1927).
 J. A. Glaze, Am. J. Psychol. 40, 236 (1928).
 F. Hoelzel, Am. J. Digest. Diseases 11, 71, 101 (1944).
 W. B. Cannon, Bodily Changes in Fear.

- 161 (1944).
 16. W. B. Cannon, Bodily Changes in Fear, Hunger, Pain and Rage (Appleton, New Weith 1919). York, 1915).

Training of College Teachers

I note in your editorial "Real pro-fessionalism" [Science 132, 439 (19 Aug. 1960)] that the National Education Association is now attempting to impose state licensure and a requirement "to study the theory and practice of education in the course of their professional education" on college and postgraduate educators.

I have long been disenchanted with the training too many of the school educators receive at the "teachers colleges," whose curriculum is so heavily laced with courses on how to teach but seems so weak in the subjects to be taught. Are we now to inflict the same "uniformity" (or is it mediocrity) on the collegiate instructors?

Perhaps I am too naive in my belief that the two essential characteristics of a good teacher are (i) enthusiasm and (ii) thorough knowledge of and interest in his subject.

JOHN HELWIG Hospital of the University of Pennsylvania, Philadelphia

Brain Dysfunction

A report by Wells and Wolff [Science 131, 1671 (1960)] offers a slim but adequate excuse for me to make some remarks which I have been saving up for some time.

The authors cite a fascinating experi-

23 SEPTEMBER 1960

NEW PHOENIX MODEL K-5000-A

Now Available For Combined Analytical— **Preparative** Analysis With the MODEL 5500 STREAM SPLITTING SYSTEM

For complete details write Dept. K for Bulletin K 5000-A

3803-05 NORTH FIFTH ST., PHILADELPHIA 40, PENNSYLVANIA

STEREO-MICROSCOPE

PHOENIX PRECISION INSTRUMENT COMPANY



PROMPT DELIVERY Long Working Distance **Superb** Optics **Magnifications 6X-200X** Large Variety of Accessories **Old World Craftsmanship**

ERIC SOBOTKA CO.

108 West 40th St. New York, 18, N. Y. **Specialists in Imported Equipment** How To Get Things Done **Better And Faster**

10



BOARDMASTER VISUAL CONTROL 🛧 Gives Graphic Picture—Saves Time, Saves Money, Prevents Errors $\stackrel{\bullet}{\sim}$ Simple to operate—Type or Write on Cards,

 Snap in Grooves

 ☆ Ideal for Production, Traffic, Inventory, Scheduling, Sales, Etc.

 ☆ Made of Metal Compact and Attractive.

 Over 500,000 in Use Full price \$4950 with cards 24-PAGE BOOKLET NO. BF-10 FREE Without Obligation Write for Your Copy Today **GRAPHIC SYSTEMS**