ENvironments

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The honor of being here this evening as retiring president of the most dignified of our American biological societies is greatly appreciated, and this occasion is for me a very pleasant one indeed. I am specially glad to be allowed to represent the relatively youthful science of plant physiology on the occasion of this semi-centennial celebration of the American Society of Naturalists. With Dr. Conklin's inspiring story of the first half-century of our society fresh in our minds, it is not unnatural for us naturalists to ponder over phases of the probable future of biological science, as its future may be tentatively foreseen from recent thought trends in this field, and it is to some phases of the newer trends that I wish to ask your attention.

For the last decade or two one notable growth in biological view-point has been a rapid increase of interest in processes and products of living things, as these may be studied and compared in an increasingly quantitative way. Observations become progressively more comparative, and more quantitatively so. Superficial description must, of course, precede everything else, but comparison calls for increased precision of factual knowledge and consequently observation has become, and is becoming, continually more precise and more laborious. This kind of progress is seen partly in the introduction of new characteristics or dimensions, according to which things may be more satisfactorily compared, and partly through improved methods of observation and measurement. Our language is expanding, with added words and phrases calculated to facilitate precise notation, but such additions hardly keep pace with the recent rapid advance of thought, and some new concepts are widely accepted without adequate ter-
Science 80 (2086), 6-596.

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