through bacteriology and agronomy to public policy. Some of the contributions are particularly noteworthy. R. Meagher provides an elegant characterization of cauliflower mosaic virus, a possible molecular cloning vehicle for higher plants. When this characterization is combined with the further description of the Agrobacterium plasmid by J. Schell and M. Van Montagu and by E. Nester et al., it is clear that genetic modification of higher plants via recombinant DNA may soon be an experimental reality. R. W. F. Hardy presents a thoughtful and direct analysis of what is known about the biological factors that limit plant productivity. Techniques allowing genetic manipulation of Rhizobium species are described in several articles. These advances portend rapid and exciting developments in the genetic engineering of these important bacteria.

Whatever the eventual role of molecular biology in crop production, it is essential to begin to approach the classical holistic descriptions of plant productivity with reductionist and analytical tools. This volume marks an excellent start to the process, and it is interesting (and even exciting) reading. In several instances authors take diametrically opposed viewpoints, and on other topics there is a dearth of experimental evidence and speculation prevails. As the work toward a molecular understanding of crop productivity proceeds it is important to remember that molecular analysis cannot be judged a success until all of the intellectual gingerbread results in real world consequences.

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Curator/Director—Zoo/Museum. Ph.D. zoology; 6 years of experience as curator of major zoo. Seeking zoo, museum, or conservation position in administration/staff. Box 243, SCIENCE. 7/14, 21, 28

Microscopist/Microanalyst/Scientific Photographer. Ph.D. Eight years of industrial experience. Electron and light microscopy, XRF, wide variety of subjects. Supervisory and product development experience. A fast and effective problem-solver. Seeks position in well-equipped laboratory of progressive company or university. Box 241, SCIENCE. X

Zoologist, B.A., M.Sc. biology; Ed.D. higher education and biology. Ten years of college teaching experience. Research in science teaching at college level. Strong in biochemistry and cell and developmental biology. Seeks undergraduate teaching position. 231 South 12 West, Billings, Montana 59102. X