

Many of these reports deal in considerable detail with the problems of teaching, for engineering instructors are self-critical, and are constantly reminded of what is required of them by their contact with engineering practice through graduates or employers. A recital of individual opinions would be tiresome, and an attempt is made in what follows to crystallize general opinion both of our own heads of departments and of others interested in engineering education, to focus attention on what is required of us, to state how we attempt to meet the demands made upon us, to discuss some recent trends, and to outline in a general way the pressing needs and lines of development. A copy of the report of each department is submitted herewith.

WHAT KIND OF MEN ARE NEEDED IN ENGINEERING INDUSTRIES?

An admirable summary of the needs of the industries was given in a recent address by the chief engineer of one of the largest organizations on this continent, - the American Telephone and Telegraph Company- which maintains a manufacturing plant, large research laboratories and engineering and operating departments. The requirements are similar, in a general way, in smaller industries. A few quotations are given below:-

"What we want are men who can recognize the problems with which they are confronted; study the problems; determine the appropriate action, and then take such action in the right way Understanding of the problem needs perception..... There can be but little perception without broad knowledge of the business, as things must be seen in their proper relation to each other, and to the business as a whole. There must be imagination, intelligence, judgment, intellectual honesty and high aims."