I will produce your quantum of iron indirectly by brethren to eat American pork products. Or perhaps matrists who are now trying to persuade our German yourselves obliged to call in the aid of the skilled diplo-and ready market for your pigs. You will not find converted into living pigs. You will have a constant almost as easily as the great American corn crop is coal or iron ore and limestone, and raise iron pigs You miners and smelters are to dig the ground for and the ministers of this iron mission to the world. story and play our part as the leaders of civilization little for others; and here is where we come into the would be an embarrassing present to some, and far too it is needless to say that three hundred pounds of iron measured out for his use enables him to solve many problems which appeared impossible to Angelo or Wren; and skill in iron working has from all time been a title to distinction,—for, although there are more carpenters than smiths in the world, Smith is the distinctive name most often handed down from father to son.

Such, then, is the brief story of your work if we take a single material and a single use of it for the sake of simplicity of treatment, but it is easy to see what are the contributions to this work of civilization of the chemist and the physicist, who provide the original data upon which the metallurgist and the engineer are working, and how, also, at the base of and pervading all calculated knowledge is the abstruse work of the mathematician, whose forms of expression are as essential to scientific thought as a common language is to human intercourse.

Then, again, the transformation of a shovel full of iron ore into a bit of steel rail, a bundle of needles, or watch springs, can only be done economically by large associations of men in settled and well-organized communities, and the work of the sanitary engineer, the political economist, and the historian are obviously essential to a knowledge of the laws of health and order which must regulate such communities.

You who are equipped with this knowledge, and are handling these materials, are going to do this work of civilization for the thousands of men, women, and children who are incapable of doing it for themselves, and your names will be graven upon the corner stones of new edifices, which will change the aspect of the world before you are old men; and we shall look with pride upon your success,—we who have step by step built up a school, adding, as we saw the need of it, each thing which we thought necessary to enable you to be the architects of new structures, and incidentally to be the architects of your own fortunes.

I will not deny that iron construction may be abused, as well as used, but the same is true of most good things, and I will not turn aside to argue with those