

the permission of the constituted authorities to carry on his business. And general public results are justifying these cautions thrown around the use of all these products, dangerous or salutary, as the case may be.

Indeed, the wonders of modern chemistry are never ending, and the "apothecary shop" of old, has been transformed into a public clinic, from which remedies and compounds are dispensed to the public, for a nominal cost, that have become indispensable, because so well-known and understood by the pharmacist as to become fixed in the public regard. So marvelous are many of the modern discoveries that the ancient alchemist, with his dreams, is no longer the derision of the scientist. The transmutation of metals, in the case of some rare ones recently discovered, has been actually accomplished. Radium is, perhaps, the world's greatest wonder of today. Not all is understood. Effects are produced through the scientific process, which defy analysis, while the result remains. And in the case of some of the well-known disinfectants, results justify a use, when science is unable to explain the transformation.

The public value of the exhibits in this section of the Palace of Liberal Arts, therefore, cannot be overestimated. Foreign governments should see to it that public laboratories make contributions to this highly important department of the coming universal exposition. And manufacturers, by exhibit of their latest products, may reach unlimited markets in remote lands that will justify the investment of largely augmented capital.

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#### LOYALTY.

"First, then, by industry you must fulfil your vow to your country; but all industry and earnestness will be useless unless they are consecrated by your resolution to be, in all things, men of honour; not honour in the common sense only, but in the highest. Rest on the force of the two main words in the great verse, "*Integer vitae, scelerisque purus.*" You have vowed your life to England; give it to her wholly—a bright, stainless perfect life—a knightly life. Because you have to fight with machines, instead of lances, there may be a necessity for more ghastly danger, but there is none for less worthiness of character than in olden time. You may be true knights, though perhaps not *equites*; you may have to call yourselves 'cannonry' instead of 'chivalry,' but that is no reason you should not call yourselves "true men." So the first thing you have to see to, in becoming soldiers, is that you make yourselves wholly true. Courage is a mere matter of course among well-born youths; but neither truth or gentleness is a matter of course. You must bind them like shields about your neck; you must write them on the tables of your heart. Though it be not exacted of you, yet exact it of yourselves,—this vow of stainless truth."—*John Ruskin, at the Royal Military Academy, Woolwich.*

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Education is a better safeguard to liberty than a standing army.—*Everett.*