abstinence, and these things will be accomplished.

BY PROF. E. L. YOUMANS.

with enrnest and untiring attention.

and the knowledge of the worth of the true friend acts as the principles of food. They organise or build togea stimulus to more decided exertion. Help a man over ther dead mineral matter into compounds capable of a difficulty secretly and quietly, and he, clad in his self- nourishing the animal body, viz . sugar, starch, gum, respect, will overcome obstacles which seemed insur. pil, gluten, &c. Within the animal system those foods mountable; but help him even to a greater Jegree are decomposed and destroyed, and restored to the mountable; but help him even to a greater degree are decomposed and destroyed, and restored to the publicly, and you will find him resting upon his oars, able to do little for himself, and that little with no heart and no spirit. Banish strong drink, and what son would see his parents come to want. Banish strong drink, and what parent would allow his children to be without the becoming parts of the animal body, and then of relapsmeans of earning a living. Banish strong drink, and then the inorganic state, without doing injury to god-like nature of man will be brought out, he will then the fabric. All organised or living substances have fook upon his fellow-men as a brother; and in faith in the fabric. All organised or return to simple conditions, Gal's providence will shore his crust with any brother and a great number of chemical productions are furned God's providence will share his crust with any brother and a great number of chemical productions are formed in distress. If you think this desirable—if you would see as the successive steps of this backward change. hur,anity raised-if you would delight in your own Among those is alcohol. It is not a product of vegehappiness, and be glad to be the instrument of happiness, table growth, as are all foods, but a result of the desto others, then I beseech you to take the pledge of tructive forces of putrifactive decomposition, and differs totally in origin, chemical properties, and properties from the aliments which man employs as food. This Alcohol and its Effect upon the Human System, is the peculiar and active principle of all intoxicating liquors. We now inquire what is its behavior in the human system. When alcoholic liquors are taken At an early hour, notwithstanding the unfavorable into the stomach they do not remain there to be weather, Dr. Tyng's Chapel was filled with a highly digested like aliamentary matter, but are at once taken intelligent and appreciative audience. Dr. Tyng up by the veins and pass forward to the general cirintroduced the lecturer to the audience, who received culation. If they remained in the stomach they would him with much enthusiasm. The lecturer spoke for stop all digestion, thereby destroying the gastric juice, an hour and a half in an impressive, convincing and precipitating its pepsin. Say Told and Bowman, pereloquent manner; his illustrations and experiments haps the first living authors upon physiological subjects, heing highly appreciated by the audience, who listened "The use of alcoholic stimulants also retard digestion ith earnest and untiring attention. by coagulating the pepsin and thereby interlering with Mr. Youmans began his introductory, by saying that its action." Were it not that wine and spirits are in undertaking to consider a profound scientific question rapidly absorbed the introduction of these into the within the limit of a single lecture, I encounter diffi- stomach in any quantity would be a complete bar to culties at the threshold with which lecturers generally the digestion of the food, as the pepsin would be preare unacquainted. Those who speak to a popular cipitated from solution as quickly as it was secreted audience upon critical, literary, ethical, political or by the stomach. Having entered the circulation the historical topics, u ally find their hearers educated alcohol is distributed throughout the system, or it enters up to a ready understanding of the elements of their those parts which have the strongest attraction for it. subject and the terms employed to represent them - What now are its effects on the animal tissues? The this is presupposed. But it is not so in a scientific human body is a theatre of the constant change of discussion; we are here compelled to presuppose the atoms and particles, and to carry forward these changes very opposite - that the listeners are quite unacquainted and transportations of atoms, water is the great medium with elementary facts and principles, and the terms -from four-fifths to nine tenths of all parts, muscles, employed to represent them. We everywhere meet nerve, eye, and brain. It is just as vital and living with persons of high literary attainments and large in- an element of the tissues as the solid substances with telligence, who nevertheless are deplorably deficient which it is associated. Leibig made the following in scientific culture. Were I to speak to you of Presexperiment:—He took a piece of fresh animal memsident Pierce's administration of the laws of this Gobernment, I should be understood and anticipated in of dry matter and 107 grains of water, and placed it everything; but in treating of God's administration of in about 24 cubic inches of alcohol; after a time he the laws of the human constitution, I must begin with withdrew it, and found that it had absorbed 51 grains the most primal conceptions. I speak of this only as of alcohol and lost 99 of water. The alcohol, therea serious difficulty in attempting to dispatch an imfore, drove the water before it displacing thrice its portant scientific subject in a narrow compass of time. value. This disturbance of the natural composition of The sources and nature of alcohol are well understood a tissue we call disorganization, and it occurs whereby all scientific men; with them there are no two ever alcohol enters a living part. This action of opinions about it. But many people are not quite clear alcohol-"depletion of the organs," as it is termedupon the subject; for the benefit of such I have predicted by Pereira in accounting for its medicinal pared a chart, upon which the chemistry of the question effects. The next great constituent of the body is is made visible. The lecturer here directed attention albumen, which exists in the blood and all the fluids to a large and beautiful chart, (the same which accompanies his work,) which exhibits the sources and the material from which all tissue structures are dechemical compositions of alimentary aborded attention. chemical compositions of alimentary chemical atoms, rived. With only the addition of warmth, the chicken He showed how mainly from the three substances, is produced from it. Throughout the body albumen carbonic acid, water, and ammonia plants produce all is constantly changing into fibrin and fibrin into flesh.