For the Torch of Reason. DAWN.

How apt we are to measure all we know And all the world, by our own narrow - rules.

But if inclined to harshness, we despise

We may be just as weak in others' eyes.

And this is selfishness. To ignorance of nature.

The twain have ruled the world for countless years. Chained liberty, and, while her martyrs

bled

This discord jars the music of the song. From church to state, from governments

of nations To humble life, this motive power is strong.

Through toilsome life, yet reaching

toward the light Saved from despair, but only by the

That morn is dawning on our troubled

Where we may find the truth; and finding, be

Free, noble, happy in its perfect day.

Oh, for great souls with charity as broad

As all the universe; a love for all

Humanity; a sense of others' rights! Such minds are never narrow, cramped thought; so P. Huber found it was the effects of the natural selection

Divine Humanity, let thy sweet beauty Abash all prejudice, and forms and creeds. For after all, our first and highest duty Is loving, helping others in their needs. ANNIE TUFTS.

Instinct.

same class.

show that several distinct mental already finished work. enable us to perform, when per- instead of playing the piano-forte well as I could, as the ants do with meal.

formed by an animal, more especi- at three years old with wonderfully their antennæ; but not one excreted.

pared instinct with habit. This acquired by habit. he is generally forced to go back to the effects of habit are in many recover the habitual train of cases of subordinate importance to with a caterpillar, which makes a of what may be called spontaneous very complicated hammock; for if variations of instincts-that is of he took a caterpillar which had variations produced by the same completed its hammock up to, say, unknown causes which produce the sixth stage of construction, and slight deviations of bodily structure. put it into a hammock completed Again, as in the case of corporeal

up only to the third stage, the cat- structure, and conformably to my Many instincts are so wonderful erpillar simply re-performed the theory, the instinct of each species that their development will prob- fourth, fifth and sixth stages of is good for itself; but has never, as ty sufficient to overthrow my whole pillar was taken out of a hammock for the exclusive good of others. theory. I may here promise, that made up, for instance, to the third One of the strongest instances of an I have nothing to do with the ori- stage, and were put into one fin- animal apparently performing an We are concerned only with the di- for it, far from deriving any benefit of aphides voluntarily yielding, as mental faculties in animals of the and in order to complete its ham- sweet excretion to ants: that they on a dock-plant, and prevented their actions are commonly embraced by If we suppose any habitual action attendance during several hours. to migrate and to lay her eggs in tween what originally was a habit through a lens, but not one excreted; other birds' nests. An action, which and an instinct becomes so close as I then tickled and stroked them

ally by a very young one, without little practice, had played a tune Afterward, I allowed an ant to visit experience, and when performed by with no practice at all, he might them, and it immediately seemed, by many individuals in the same way, truly be said to have done so in- its eager way of running about to without their knowing for what pur- stinctively. But it would be a se- be well aware what a rich flock tt Those who agree with us are very wise; pose it is performed, is usually said rious error to suppose that the had discovered; it then began to Those who do not are lunatics,—or fools. to be instinctive. But I could show greater number of instincts have play with its antennæ on the abdothat none of these characters are been acquired by habit in one gen- men first of one aphis and then of universal. A little dose of judg- eration, and then transmitted by another; and each, as soon as it felt Their bigotry; forgetting in our blind- ment or reason, as Pierre Huber ex- inheritance to succeeding genera- the antennæ, immediately lifted up presses it, often comes into play, tions. It can be clearly shown that its abdomen and excreted a limped even with animals low in the scale the most wonderful instincts with drop of sweet juice, which was which we are acquainted, namely, eagerly devoured by the ant. Even Frederick Cuvier and several of those of the bee-hive and of many the quite young aphides behaved in the older metaphysicians have com- ants, could not possibly have been this manner, showing that the action was instinctive, and not the recomparison gives, I think, an ac- It will be universally admitted sult of experience. It is certain, Steeped our fair earth in misery and tears, curate notion of the frame of mind that instincts are as important as from the observations of Huber, And, even now, through all man's under which an instinctive action corporeal structures for the welfare that the aphides show no dislike to is performed, but not necessarily of of each species, under its present the ants: if the latter be not present its origin. How unconsciously conditions of life. Under changed they are at last compelled to eject many habitual actions are per- conditions of life, it is at least pos- their excretion. But as the excreformed, indeed not rarely in direct sible that slight modifications of in- tion is extremely viscid, it is no opposition to our conscious will! stinct might be profitable to a spe- doubt a convenience to the aphides How are we left in darkness! Here to yet they may be modified by the cies; and if it can be shown that to have it removed; therefore probwill or reason. Habits easily be- instincts do vary ever so little, then ably they do not excrete solely for come associated with other habits, I can see no difficulty in natural se- the good of the ants. Although with certain periods of time and lection preserving and continually there is no evidence that any anistates of the body. When once ac- accumulating variations of instinct mal performs an action for the exquired, they often remain constant to any extent that was profitable. clusive good of another species, yet throughout life. Several other It is thus, as I believe, that all the each tries to take advantage of the Oh, for more light! Arise, fair Liberty, points of resemblance between in- most complex and wonderful in- instincts of others, as each takes ad-And with the Torch of Reason lead the stincts and habits could be pointed stincts have originated. As modi- vantage of the weaker bodily structout. As in repeating a well known fications of corporeal structure arise ure of other species. So again cersong, so in instincts, one action fol- from, and are increased by, use or tain instincts can not be considered lows another by a sort of rhythm: habit, and are diminished or lost by as absolutely perfect; but as details if a person be interrupted in a song, disuse, so I do not doubt it has been on this and other such points are or in repeating anything by rote, with instincts. But I believe that not indispensable, they may be here passed over.

As some degree of variation in instincts under a state of nature, and the inheritance of such variations, are indispensable for the action of natural selection, as many instances as possible ought to be given; but want of space prevents me. I can only assert that instincts certainly do vary-for instance, the migratory instinct, both in extent and direction, and in its total loss. So it is with the nests of birds, which vary ably appear to the reader a difficul- construction. If, however, a cater- far as we can judge, been produced tions chosen, and on the nature and temperature of the country inhabited, but often from causes wholly unknown to us. Audubon has given gin of the mental powers, any more ished up to the sixth stage, so that action for the sole good of another, ences in the nests of the same spethan I have with that of life itself. much of its work was already done with which I am acquainted, is that cies in the northern and southern United States. Why, it has been versities of instinct and of the other from this, it was much embarrassed, was first observed by Huber, their asked, if instinct be variable, has it not granted to the bee "the ability mock, seemed forced to start from do so voluntarily, the following facts wax was deficit?" But what other I will not attempt any definition the third stage, where it had left show: I removed all the ants from natural material could bees use? of instinct. It would be easy to off, and thus tried to complete the a group of about a dozen aphides They will work, as I have seen, with wax hardened with vermilion or softened with lard. Andrew Knight this term; but every one under- to become inherited—and it can be After this interval, I felt sure that laboriously collecting propolis, used stands what is meant, when it is shown that this does sometimes the aphides would want to excrete. a cement of wax and turpentine, said that instinct impels the cuckoo happen—then the resemblance be- I watched them for some time with which he had covered decorticated trees. It has lately been shown that bees, instead of searchwe ourselves require experience to not to be distinguished. If Mozart, with a hair in the same manner, as different substance, namely, oat--Darwin.