## BOYS AND GIRLS

## The Day With God.

(The Rev. Isaac Ogden Rankin, in the 'C. E. World.')

The morning, Lord, be Thine, as Thine Were the still hours of sleep. About this wandering life of mine
Thy guardian vigils keep.
Though pride and folly lunk within, And passion lures me still, Let no enticing thought of sin Pass by my gates of will.

O patient love, that suffers long, My pattern and my joy, Restrain me in the hour of wrong, The moment of annoy.

From folly let my lips be free,
From feverish hate my heart.

Thou pardonest, Lord, and I would fain
Choose the forgiving part.

No dearer name than Thine be heard, No dearer will be known— Who are the true and living Word, Who lovest still Thine own. Wherever duty leads my feet,
Whate'er my sorrows be,
Let all the cares of life be sweet
Because I work with Thee.

## Rasmus, or the Making of a Man.

(By Julia McNair Wright.)

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> CHAPTER VIIL Lessons in Leaves.

'And thus among the rocks he lived Through summer heat and winter snow,
The eagle was the lord above,
And Rob was lord below.'

'I don't think I should like to be a farmer,' said Rodney, looking at a man who went up and down, sowing a great field. 'It must be tedious and stupid to do such work as that.' 'But it comes to something,' said Rasmus. 'If I had to work, I'd take to something about a farm. All we get comes out of the ground.

If I had to work, I'd take to something about a farm. All we get comes out of the ground, if you be back enough."

'What is the most important thing to us that grows out of the earth?' asked Rodney.

'Why, grain, you silly!' said Rasmus.

'You're out, there,' replied Mr. Llewellyn.

'What do you think it is? Apples, punkins, cabbage?'

'None of those things would do us any good if we were not alive to use them; and and none could keep life in us without the help of another thing that grows. Look across that woodland. What gives it that fine, purplish green color?'

'The young leaves just burstin' out,' said

green color?'

'The young leaves just burstin' out,' said Rasmus; 'young leaves isn't all of a color. The beech is purple in the young leaf, and the oak is yellow and pink, or a kind of pink and brassy color, and the maples begin red, and some kinds are yellow, and some silver.'

'And then they speedily turn green. That green is a substance laid in little cells, something like the cells in a honeycomb. It is called chlorophyl—I'll call it "leaf-green"; and if it were not for that, we'd all be dead in short order.' short order.'

short order.'

'Why, we don't eat it, or drink it,' said Rasmus. I have heard of hungry people eating young oak leaves, but they got mighty little good by it.'

'There is, in all the bodies of men and animals, a little waste or decay going on, all the time; little particles only to be seen through a microscope—atoms called carbon— are brought into our lungs here, where we breathe. If they remained there, we should die. Fill your lungs with this good air: that is oxygen: it goes into the lungs, and at once the little bad carbon atoms seize it and mix with it. Every two atoms of the clean oxygen get one

atom of the dirty carbon; and when we breathe out, after having breathed in, we send out of our bodies this carbon, mixed with send out of our bodies this carbon, mixed with oxygen. But it is now not good air: this mixing has made it poison. It is called carbonic acid gas, and it is supposed that from the lungs of men and other animals forty-five million tons are thrown into the atmosphere every day. As it is a poison we'd die of it, at that rate, very soon, if it were not for the green leaves. Now, the leaves live and grow on this very carbonic acid that kills men. Look at this leaf under my microscope; it is full of little holes or mouths, especially on the under side. In sunshine they are widest open under side. In sunshine they are widest open swallowing all the carbonic acid they can get; swallowing all the carbonic acid they can get; but the plant does not want all the carbonic acid, it only wants out of it that little one part of carbon; so it eats that up, and breathes out the two parts of clean oxygen again, so the bad part of the air is eaten up by the plant, and the good part is sent out clean for animals to breathe, and the atom of carbon is turned by the plant—working like a little factory—into sugar, or starch, or wood; and thus made over, we eat it in grain and potatoes, or burn it in our stoves, or build our houses of it. And so, you see, the plant uses and changes what is the waste of our systems, and would poison us. "Is that breathing out of what you call carbon stuff, what makes the air so bad when a

bon stuff, what makes the air so bad when a lot of people are crowded together without doors or windows open?' asked Rasmus.

'Exactly that; it causes disease, and sometimes death.'

'I've seen it in the two and five cent lodgings. I'd rather stay out in any storm than in one of them. My head feels as if it was full of blood, and my stomach turns sick, and my ears ring. It's awful! You see, they crowd them places as full as they can hold, for people to lie right along, and some of them goes in sick, or drunk, or dead tired, and drops asleep directly; and in the morning they feel nigh dead. They have headache, and are dizzy, and stiff, so if they can raise a nickle, they run right off for a dram. There wouldn't be nigh so much early drunks, if the police didn't allow them lodging-houses, packed like herring boxes, or if people would see to it that the miserable people had decent lodgings, with separate beds, and some air in the room. Some of them lodgings the poor folks have nowhere else to go in the morning, and they feel weak and tired, and worse than when they come in, and the keepers can't get 'em woke up, and cleared out. I've knowed where the beds was sacking, string or rope, and in the morning they untied the rope, and let 'em down, and that woke 'em up. I don't want you to think I slept in such dens. I've got some respec' for myself. But if there was half-way clean lodgings, lodgings as decent as a pretty good pig-pen, or chicken-house, or T've seen it in the two and five cent lodghalf-way clean lodgings, lodgings as decent as half-way crean lodgings, lodgings as decent as a pretty good pig-pen, or chicken-house, or car-stable for poor folks, and a cheap place where they could get hot breakfast, I say there wouldn't be half so much drunken folks. They is drove to drunkenness, many of them. I've lived among them, and the beauty of me is, when I talks, I knows what I'm talking about?

'That is very wonderful about the leaves and the animals,' said Rodney, coming out of a reverie. While Rasmus had been giving himself to the practical issues of the matter, Rodney had been devoting his attention to the theoretical.

'It shows, as all nature does, when studied, plan. The more we learn about nature, the more we see the Divine mind and wisdom lying back of it. It is no mere accident that every plant thrives on what the system of ing back of it. man rejects, and by an interchange of good of-fices the animal feeds the vegetable world, and the vegetable the animal, while the poison absorbed by the leaf, is in its wonderful al-chemy converted into proper food, or fuel, or clothing-fibre for man.'

'Then all the plants are thinking about or working for, is to take care of man?' said

what they are all busy about is to pro duce other and healthy plants of their kind, so that the stock shall not die out; and while they are so busy, they are doing all this in man's behalf. The object of this great oak here by the road, is not to shade us or the

cattle, not to clean so many pounds of air to refit it for our breathing; not to grow timber for ships; not to feed squirrels and mice, but to produce these acorns-in multitude, so that while many must perish or be eaten up, some will live and grow into future oaks. While doing this, all those other beneficent acts of shade and oxygenating air, and inacts of shade and oxygenating air, and increasing moisture, and providing fuel, food, and timber come in its way. So, any man, who in his life is with all his might working to some honest end—that end set for him—does incidentally, and by the way, much other good. Now, here is an acorn, buried and sprouted at the root of this tree. Look at it. The shell, thick and varnished, was to been The shell, thick and varnished, was to keep it safe from rot over winter. Here in the The shell, thick and varnished, was to keep it safe from rot over winter. Here in the middle, you see the beginning of the big treetop in this little plumule, like a white feather, and the promise of all the huge roots in this little radicle, like another feather.'

'Why, it's a tree—a little, fine picture of a tree!' cried Rasmus, with great joy.

'Exactly; and these thick parts of the acorn are to nourish the little plant, to feed it, and breathe for it, and be its work-shop, until it is strong enough to work for itself. These "seed-leaves" are the property, or inheritance, laid up by the parent oak for its young child.'

young child.'

'And what part of the tree makes the alcohol?' asked Rasmus.

'No part; there is none in the tree.'

'Well, in the plant, then—the fruit. They cay, came the alcohol. In all these grains and kinds of fruit. I've seen 'em. When I worked for the farmer, I carted peaches and apples and grain to a 'stillery.

'And there was not a drop of alcohol in any

'And there was not a drop of alcohol in any of them.'

'How did it come out of them, then?' demanded Rasmus.

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'They were sound and living things, when you took them to the distillery. They were let die, and began to rot; from death and decay, came the alcohol. If all these grains and fruits is some portion of sugar, greater or less: the sugar by heat in decay, ferments, and from the fermentation arises a new substance, not in the healthy and living plantalcohol. Alcohol is death. It is the child of decay, and it creates decay in living tissues. You may take a dead bug, or a dead snake, and bottle it up in alcohol, and it will keep without rotting. It is by the alcohol acts on it in a measure like cooking it; but put alcohol in a living tissue, as a man's stomach, and it produces fever, indigestion, corruption.'

'Is that what makes drinking folks' breath

'Is that what makes drinking folks' breath so horrible, and their skin so liable to break out in sores? Now, I never had a sore on me, and if I cut or scratch myself, the skin closes and if I cut or scratch myself, the skin closes up directly. My flesh is as nice as a baby's,' said Rasmus, with great pride, turning up his shirt-sleeve, and exposing his white and muscular arm. Rasmus was a very magnificent specimen of an animal, and he was proportionately vain thereof. He took the naïve satisfaction in himself of a little child, who stands before a glass, and tranquilly remarks: 'O, I are pretty! How 'feet I am!'

'Then alcohol is a poison,' said Rodney, 'got by fermentation?'

'Yes. The distiller drives fermentation to its utmost limit, to turn all the sugar of his grain or fruit into alcohol. When the wash or mash is full of alcohol—that is, when all the

grain or fruit into alcohol. When the wash or mash is full of alcohol—that is, when all the sugar has been so turned that can be, for he will lose a little of it, no doubt—he proceeds to separate the alcohol by distillation. To turn this alcohol into various drinks, it is mingled with water, burnt sugar, cocculus indicus, and a great many other drugs and poisons, all unfit to go into a human body—or any other body.'

See here' said Premus balding and him

'See here,' said Rasmus, holding out his hand, after they had walked along in silence for a while.

He had three hickory nuts on his palm. One shell was split into two parts: one had a little, smooth, perfectly round hole in it; the third, a small irregular hole.

'They're all empty. What got a dinner out of them?'

'Squirrels,' said Mr. Llewellyn and Rodonly out of the split one. Mr. Squirrel