GREATER THAN THE PRINTED WORD: We may live without poetry, music and art; We may live without conscience, and live without heart; We may live without friends; we may live without books; But civilized man cannot live without cooks. He may live without books - what is knowledge but grieving? He may live without hope-what is hope but deceiving? He may live without love—what is passion but pining? But where is the man that can live without dining? V -Selected. - NOVEL BY WILLIAM TULLINGHAST TLORIDGE

Hilma, by William Tillinghast Eldridge. II-lustrated, \$1.50. Dodd, Mend & Co., New York City.

To an accompaniment of Jingling spurs

"My Queen. I cannot stay. I am for you.

To an accompanisent of inging spurs and clattering awords, blessed by lovers' meetings in the pale moonlight, and a fight for the throne of a mythical king dom. tucked away somewhere to the heart of Europe, this romance by a comparatively unknown author grows in the paratively unknown author grows in the residue until one falls in love with a parts, to be a restless wanderer, living

paratively unknown author grows in the reading until one fails in love with a dashing novel that has the ring of Anthony Hope's "Prisoner of Zenda."

How many "Zenda" novels are there? Their number by this time must surely be legion, but one of the best of these is Mr. Eldridge's "Hilma." The book has much to commend it. The author's siyle is dramatic and sparkling-yea, to the depths of brilliancy. The story makes the blood dance all the faster, and the setting is picturesque. The fine illustrations are by Harrison Fisher and Martin Justice. Then the book-cover—it is an artist's That one day out of darkness they shall the story shall be bound of darkness they shall the faster of the cheeper of the other's being, and no head: And all unconsciously shape every 4ct. And all unconsciously shape every 4ct. The continuous of the cheeper of Then the book-cover-it is an artist's fream of delight, blushing in the beauty oream of designt, bushing in the beauty of a Spring dress of blue-gray, with a bor-der of violets and a girl's face pictured in the center. The face is that of a pretty girl with a look suggesting aristocracy. he wears a cockade, over waving brown

Mr. Hope's mythical country was Ruru-Frincess Flavia, Ramsendyl, Colonel Sapt.
Fritz and Rupert the Ready. Mr. Eldridge's mythical country is Scarvania—
a journey by rail of two days and two
nights from Paris—and his principal charseters are Princess Hilma von Cedra of
Rullburg; John Harold Converse, a patriclaw New Yorker of ease good looks and
Had the churacter work been crude incian New Yorker of case, good looks and millions; the Grand Duke of Kurlmurt. Karl von Merlder, and Heinrich Vankle. general scoundrel.
Although "Hilma" now and then shows

inexperience in construction and dialogue, yet the plot is so fresh and natural that compelled to pursue the mystery

one is competited to the last page.

The plot is briefly this: While hunting in the western part of the United States.

Mr. Converse is advised by his sister Point out to come home to New York to find out to have married why a girl that he ought to have married had preferred instead to marry Sir Charles Bander, the British, Minister at the espital of Scarvania. On the journey the capital of Scarvania. On the Jointey, to New York Converse makes the acquaintance of a fellow-passenger, Karl von Merdler, whem he subsequently meets on board the Majestic en route for England. Karl had brought with him documents secured in this country showing the illegitimacy of Prince Joachim, claimant to the vacant throne of Scarvania. Karl does an unlooked-for thing and one hardly probable—he entrusts these priceless documents into the security of Converse, a and asks the latter to hand the will meet in a certain London hotel. This is decidedly a weak part of the story. Although he did not know it, the order on which Karl was adding had been forged by enemies. We are hurried to Scarvania, and by this time Converse and Karl are sworn conspirators to forward the claims of the Princess Hilma, the direct heiress to the throne.

first time Converse meets the Prin-he speaks of her in this reverent

fashlon:
I looked up as I took her hand and real-ized I was speaking to a woman not only beautiful but one who spoke but to be kind, who thought not of herself but of others. There was something in the face that I had There was something in the gare that her never before seen in any woman's face. Her eyes were deep and clear and yet so full of latent power and fire. She was tall, straight and slight. Her light golden brown hair failling back from her forenead was colled low at her neck.

Rival factions at the court fight for the Princess Hilms and Prince Josehim. Al-most needless to relate, Converse comes

That one day out of darkness they shall meet
And read life's meaning in each other's

The Sovereign Remedy, by Flora Annie Steele, \$1.50. Doubleday, Page & Co., New York City, and the J. K. Gill Co., Portland. It is easy to understand after reading "The Sovereign Remedy" that the novel

such a pure picture of a troused soul. Had the character work been crude instead of sympathetic, the novel would have been like a broken column. It is typical English. The first words you read are: "Oh! Dash it all. I'm so sorty," and the tale proceeds with the description of a collision between two bicyclists—Lord Blackenborough and Blazard Crut. Lord Blackenborough and Diward Crut tenden. The motif concerns unalterable love existing between Lord Blackenhor-ough and Aura Graham, who atterward married Cruttenden. A motor-car acci-dent is cleverly utilized to end a perplexng situation and avoid a Zola

Beiting by Eleanor Boyt Brainerd \$1.95 Illustrated, Doubleday, Page & Co., New York City, and the J. K. Gill Co., Pertland. If you are a young man and idly stood at a New York ferry, what would you do f a charming girl you didn't know told you to run to the boat with her-the gir

pened in this amusing, dainty novel t two chief characters-Willoughb Prenties Payton and Miss Bettina Mor-ton, patriclans, who fill star parts in an inusual love episode. Bettina possessed "a waving mass of rgd-brown hair with golden lights in it; a dainty little ear set close to a well-shaped head; a soft but what is the use of saying more about this pretty pleture of healthy, happy feministy? The plot is unusually well planned, the society element predominat-ing. Just the merry tale to make a quiet hour happier. The illustrations are by Will Grete.

The Bright Side and the Other Side, by Rev. Albert E. Cook. Hlustrated, Jennings & Graham, Cincinnati, O.

Graham. Cincinnati, O.

Mr. Cook, a missionary of the Methodiat Episcopal Church, has demonstrated that something new can be written about the marvelous progress that Christianity has made in the mission fields of India. For ten long years Mr. Cook has labored in the foreign field and his book is a living witness that he has lived there to good purpose. He shows that India is a civilized country without one real religion of its own. Hindoolsm, Mohammedanism and other faiths are described. The book has 17 illustrations.

existing between wire and wireless telegraphy. He states that in the year prior to January 31, 1906, American wireless stations sent and received, with ships, 15,000 messages comprising over 200,000 words. It is calculated that the total number of recorded ship and shore stations is about 440, exclusive of many warships of various nations. The index of given subjects is arranged in convenient form.

The Hypocrite, by Bingham Thoburn Wilson. \$1. Lycoum Publishing Co., Brooklyn, N. T.

To protest against the money marriages of today and particularly instances where unwilling youth is linked to decrept old age. Mr. Wilson presents this ambitious poem to the length of over 30 actual printed pages. The scene of the story lies upon the island of Munhattan, and the fair femininity who is the subject of advantage, are Clarke. of adoration is one Clarice.

of adoration is one Clarice.

The verse suggests the style of Sir Walter Scott, but the quality is very much after that post-a long way after, indeed. Mr. Wilson's meaning is somewhat difficult to understand at times. His hero falls in love with a married woman, is racked with ill health of 'Ships-That-Pass-in-the Night' brand, 'Singer-that-Pass-in-the-Night orand, and it is a relief to ultimately know that the woman's aged husband dies, creating a good excuse for the asbestos love that follows. Mr. Wilson transfixes divorce, with a barbed spear.

How Doth the Simple Spelling Bee, by Owen

A most amusing account of a conven-tion organized to regulate spelling, and told in Mr. Wister's own inimitable, original manner. A few months ago this little book would have created quite a furore, but since then the question of simplified spelling has ceased to be fashlonable. Still, it is a fad and in this instance Owen Winter is its prophet. At the apeil-ing bee described those who attended sang

My spelling 'tis of thes.

Sweet land of spelling-bes,
Or thes I sing,
Land of the pilgrims' pride,
Land where my fathers dide, For spelling simplifide Let freedom ring. J. M. Q.

IN LIBRARY AND WORKSHOP

Although the identity of the novel-writer who calls herself Victoria Cross is still held a secret hoth here and in England, there is prospect of its disclosure not far in the future. It is now known that the initials of her pen name—V. C.—are identical with her own initials.

The latest addition to the Science Series (Putnam) is A. Forel's "The Nervous and Mental Hyglone." The author of this book has a European reputation as a neurologist. His position abreed is not unlike that of the Switches and America. The vork here in question is a comprehensive, and concise summary of the results of science in its chosen field.

The continuous popularity of Thomas Hardy is intested by the new editions of his novels that from time to time are issued. Recent reprints include "Tosa of the D'Urbervilles." "Far From the Madding Crowd." "A Lacodiccan" and "Desperate Remodies. The last named dating from 1871 and being his first long story to appear in book form. It was "Far, From the Madding Crowd," however, that gave his repute its first start.

"Acknoyd of the Faculty" is the title of the new novel by Anna Chapin Ray that is anyounced for approaching publication, Miss Ray has written of the life in one of the angular content of the life in one of the masses and wholly loyal to his kin into close contact with a social class for whose life he had had no previous training. Miss Ray is a well-known Connection such there.

The Century Company will publish Wednesday, Charles D. Stewart's new book, "Partners of Providence," some parts of which have aiready been published serially. It is a story of life on the Mississippi and the Missouri steamboats, set down, as was "The Pugitive Blacksmith," in the first person. Sam tells the story in a racy vornacular that adds to the flavor of the adventures of which there will be over a hundred in the book, are altogether in sympathy with the spirit of the text.

Altropt simultaneously with the publica-

Almost simultaneously with the publication of Arthur Stringer's new novel, "Phantom Wires," will occur the presentation of
the dramatization of his previous book, "The
Wire Tappers," at the Lincoln Square Theater, New York, As its title signifies, "The
Wire Tappers," is the account of the amazing advantures of Jim Durkein, an electrical
thventor, and a charming English ziri, who
were for a time engaged in wire-tapping in
New York City, Owen Davis, the dramatist,
is said to have made a very strong play
from this popular novel, "Phantom Wires"
narrates the further adventures of the characters introduced in "The Wire Tappers."

In "Sampson Rock of Wall Street" Edwin In "Sampson Rock of Wail Street" Edwin Lefevre pursues still further his way through the devious financial theroughteres that he has enlivened and made pictures que in his previous series of short stories. Mr. Lefevre is a New York journalist whose profession has enabled him to make an especial study of Wall street and its denisens, and his powers of observation have revealed themselves at their keenest in the vesified themselves at their keenest in the tale that he has evolved out of his own knowledge and experience, "Sampson Rock of Wall Street" is probably his first venture at the writing of a long novel-for "The Golden Flood" was scarcely more than an expanded short storr.

John Oxenham, whose new novel, "The Long Road," is to be published soon, is an Englishman who seems to have become an author in spite of himself. A few years ago he was a prosperous young busienss man, and took to writing only for relaxation and amisement. It was only a short time, however, before he found himself so absorbed in his new occupation that he abandoned business altogether. He has Bean a great traveler, having visited nearly every part of Europe and America, and having lived for some years in France and the United States. At one time he went to the Southern States with the intention of becoming an orange grower, but abandoned the project.

ern States with the Intention of becoming an orange grower, but abandoned the project.

Prince Kropotkin's "The Conquest of Bread." will appear shortly in translation. The book, first of sil, alms to show the weakness of the position of those who assert that, because the schemes of ideal states that have haunted the thinkers of all ages have not realized themselves, we are therefore to conclude that communistic or socialistic systems are not suited to the needs of human nature. It alms also to demonstrate that communistic and socialistic ideals have been, despite setbacks and reactions, approaching nearer to practical realization. After this, the book proceeds to the exposition of the communism embodying a strain of anarchy, and of course many of the teness of orthodox socialism.

F. Gilbert Webb, in a preface to W. H. Breare's new book; "Vocal Faults and Their Remedies." writes: "There is no denying that hundreds of vices hye been ruined by bad toaching. There is no denying that hundreds of vices hye been ruined by bad toaching. The results are rarely so tragic as in singing. The vocal apparatus is so delicate that it can be firstrievably injured by straining and bad habits.

It is because I believe this book will be to many as a light in darkness that I write this preface. I should add, perhaps, that my belief is based upon my having had for over 20 years to investigate the various methods of vocal production, not as a cacher, but as a critic, and consequently, have had countless opportunities of watching the effects of the methods on public sinsers. I hold no brief for this book. The weeks ago."

most needless to relaire, Converse comes out enthusiastically for the Princess. The new enemies he makes try their best to drown him and fill him with lead, but he rejoloes—like the cat—in nine lives, and comes up smiling for the next fight. Joachims men abduet the Princess ao that she cannot be found for the approaching coronation, and place her in a castle surrounded by a most. Single-handed, brave Converse storms this castle, and is largely instrumental in rescuing Hilms, with whom he has fallen in love—she reciprocating his affection.

Search ensues for the missing documents proving the illegitimacy of Prince and Joachims, and Converse—like his prototype Rassendyl—discovers that his Princess over a duty to her country, and that they speaks particularly as to the relations

ford in 1871.

Other prominent harnes might be added; and it is a point of great additional interest that the Canadian literary workers of not all go to England or all to the United States, but that while some, like Elinor Glyn and Sir Gibert Parker, are faccinated by London, others, like Norman Dimean and Basil King, are more strongly attacked.

States, but that while some, like Elinor Glyn and Sir Gilbert Parker, are fascinated by London, others, like Norman Dimean and Basil Kime, are more strongly attracted by what, outside of our own borders, is aften denominated "the States."

Varied opinious regarding the value of literary criticism in all its phases are appearing in the London press, appone President Roosevelt's enthusiastic appreciation of Victor Berard's work on the Phoeniclans and the Odyssey. Will he set the English to reading it as he set us to the reading of "The Simple Life" of Pastor Wagner Probably the answer is, in this particular case, says a writer in The Reader, in the nemalive. There was a good deal in the last-named book that appealed to the people to whom he appealed. There is little of such in the first-named. In the same way, "The Woman Who Tolls." by the two Van Vorsts, has met with but scant consideration over here, although it received a free advertisement from the President in his "race suicide" latter. Other Instances where books lauded by people more or less famous have failed, hopelessly might be quoted almost indefinitely. "When it Was Dark" was, on the other hand, certainly "made" by the Bishop of London, just as was "Wine in the Lees," by the late Dr. Parker, Mr. Gladstone boomed "Robert Elsmere," and forthwith the Bame of Mrs. Humphry Ward was on everybody's lips. Just how much, again, Miss Marle Corelli owes to the fact that Queen Victoria found pleasaince in her books, and said so, cannot be known; but it undoubtedly did not tend to shorten the long rows of faures standing to her credit in her publishers' ledgers. It was Sir Edwin Arnold's instatence, season and our upon the transcendent sension of Zola, take an interest in his stories, Humb Conway's "Called Back" fell dead until Mr. Labouchere breke forth in praise of it. Edward FitsGerald's "Rubayat of Omar Knayyam" remained unknown and uninoticed until Rossatti and Swinhurne "discovered" it almost simultaneously, and praised it from one end of the kingdom to the

NEW BOOKS RECEIVED. .

"Mexico Coming Into Light," by John Wesley Butler, 25 cents; "The Hereafter and Heaven," by Levi Gilbert, and "Persecution in the Early Church," by Herbert B. Workman (Jennings-Graham).

"Fanshawe of the Fifth," by Ashton Hiller, \$1.50 (McClure, Phillips.)

lers, \$1.50 (McClurg-Phillips). "Christ's Secret of Happiness," by Lyman Abhott, 75 cents (Thomas Y. Crowell Co.)
"Forest Friends," by John Madden, M. D.
(McClurg). foCture). "Katzenjammer Stunts." 25 cents (Gold-

berry, Chicago).
"The Far Horizon," by Lucas Malet, \$1.50 (Dodd-Mend and The J. K. Gill Co., Port-

"Front and Friendship," by George Fred-ic Turner, illustrated, \$1.50 (Little-

Concentration of Sun's Rays.

Kansas City Times. There is an apparatus which concen trates the rays of the sun from more than 6000 small mirrors on a spot about seven inches in diameter. The heat gen-erated is about 7000 degrees Fahrenheit. from can be meited in less than a minute and freeday fused in about three minutes by this machine. Magnesia, one of the hardest things to melt, requiring a heat of about 6690 degrees Fahrenheit, can be

THE PRICE OF PROSPERITY

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNESS"

INTERMEDIATE SUNDAY-SCHOOL LESSON FOR
TODAY IS "THE WIVES OF DRUNKENNES

T IS TRUE that we need lives that are stronger in the fundamental virtues.

We must first have a devotion to truth and integrity that cannot be shaken. Love thing apart from the accidents of your own lot.—George Ediot.

This busy world beside the gratification and are proclaiming liberty of conscience to all. Belivia being the last to fall into line in this respect.

Three scholarships for Chinese girls have been offered by Wellesley College and the graces of Christ we should make bis gospel attractive.

As one lamp lights another, nor grows less, so nobleness enkindleth noblen

Think truly, and thy thought Shall the world's great famine feed; Speak truly, and each word of thine Shall be a fruitful seed;

Cheerfulness is not a little thing when it shows men the joy of the Lord.

but he in whom many excellent traits abound. To lack any of the "minor virtues" is to be weak in some one respect.
Completeness is impossible in the life that
peglects the smaller graces. A statue
may be mostly fair, but if it has one uninished part it cannot be called a beautiful statue

Goodness has first claim upon a life, but attractiveness has second. We owe it to the world to be winsome; to give pleasure in all the little ways that we can devise. The soul that is tender and tactful, as well as true, is the really strong soul. Cultivate the little arts of helpfulness, and a life of great helpfulness will be the

What do we live for, if it is not to make Eliot.

He who is always hearing and answering the call of life to be thoughtful, and brave, and self-sacrificing—he alone can safely hear the other cry of life, tempting him to be happy and enjoy.—Phillips

The pillar of granite is no less granit because it is polished. A man is no les man because he is a complete gentle-

Howe'er it be, it seems to me,
'Tis only noble to be good.
Kind hearts are more than coronets,
And simple faith than Norman blood.

The spirit of Christ in the heart produces the fruits of the Spirit in the li the graces that we desire cannot be put on our life one by one, as we may choose. They are rather a growth, resulting from the indwelling of the Spirit. By these signs may we know that we have in us the Spirit: love, joy, peace, long-suffering, gentleness, goodness, faith, meekness, tamescape.

Be noble! and the nobleness that lies In other men, sleeping, but never dead, Will rise in majesty to meet thing own. 1. . .

No man or woman of the humblest sor can really be strong, gentle, pure and good without the world being the better for it; without somebody being halped and comforted by the very existence of that goodness.—Phillips Brooks.

Lives of great men all remind us
We can make our lives sublime.

-Longfellow.

We live in deads, not years; in thoughts, not breaths; In feelings, not in figures on a dial. Who thinks most, feels the noblest acts

-Philip Bailey. Look on other lives besides your own; see what their troubles are and how they are borne; try to think of something in

nation as influenced by the Fresbyterian and Reformed Churches.

A new cure for the opium habit has been discovered in the Malay peninsula. The remedy is a plant which grows freely in a wild state. The leaves of the plant in a wild state. The leaves of the plant are exposed to the sun for a day, then chopped and roasted, after which an infusion is made and the specific is ready for use. An anti-opium society has been formed and the specific is distributed free. Dispensaries which have been opened for the distribution of this drug find difficulty in supplying the demand, applicants in one province alone numbering more than 2000 daily. It is anticipated that this discovery may materially aid in the enforcement of the imperial edict in China abolishing the use of opium in the empire.

Religious liberty in Persia, together with other forms of freedom, are predicted under the rule of the new Shah.

By the enactment of a new law in Mex-ico no religious service may be held in a private house unless it has previously been registered as a church, nor may a funeral service be held in a cemetery. The South American republics are one

been offered by Wellesley College and the Empress of China will select the girls

Tamper not with conscience; it is the

They are slaves who dare not be

In the right with two or three -Lowell Know that "impossible" has no place in the brave man's dictionary.—Carlyle.

Thou hast made us for threelf. O Lord: and our heart is restless until it rests in thee.—St. Augustine.

Take patience, labor, to their heart and From thy hand and thy heart, and thy brave cheer, And God's grace fructify through thee to

Do right, and God's recompense to you will be the power of doing more right.—Robertson.

Wherever souls are being tried and ripfuneral service be held in a cemetery.

The South American republics are one by one separating religion from politics

The South American republics are one by one separating religion from politics

The South American republics are one by one separating religion from politics

The South American republics are one by one separating religion from politics.

How Sailors Find the Longitude Sky Clocks Moved Too Slowly, Man Invented Watch and Chronometer.

(Cornhill's Magazine.) F the earth did not rotate, says

Professor H. W. Turner, longitude could be found in exactly the same way as latitude, for a traveler starting from place on the equator where some bright star was seen on the horizon due east would, if he traveled toward it, see it rise in the heavens (just as he would see the Pole star rise by traveling due would indicate the length of his four-

But the rotation of the earth insists opon carrying him eastward in any ase, so that even if he remained in the same spot the star would still rise, and Its height would then indicate the time elapsed since he first observed it, as he ould readlly verify if he possessed a watch keeping correct time. If, being provided with such a watch, he set out on a journey, the height of the star at my moment would be due to a combi-nation of two causes; first, the rota-tion of the earth, for which he could make allowance by consulting his watch, and, second, his journey eastward, the length of which he could accordingly calculate.

Newadays the Sallor finds his longi-

tude just in this way, by carrying a good watch or chronometer with him on board ship. But to make a chronom. eter which would keep time correctly at different temperatures, and in the at different temperatures, and in the other varying circumstances of a sea voyage, was regarded in Flamsteed's time as hopeless—certainly as the least feasible of possible methods for finding longitude. There is, however, a clock in the sky which is independent of the imperfections of human workmanship; indeed, there are many such, for every planet which changes its place among planet which changes its place among the stars is an indication of the cor-

the stars is an indication of the cor-rect time, if we are able to read it.

These clocks have, however, all one serious defect—they move far too slow-ly for convenient reading. The quick-est of them, the moon itself, takes a whole month to perform the circuit of the dial, and to read the time correctly is thus to discuss a discussion. is thus 50 times as difficult as to read it from the hour hand of an ordinary clock, which performs its circuit in 12 hours. To read seconds from a clock we arrange mechanism to multiply the motion of this hour hand \$3,200 times— or the servants' tips."

Is extraordinary the number of charming people who refuse country house visits because they cannot afford the local's bridge stakes or the servants' tips."

720 for the minute hand, 60 for the second hand, and yet, though the sailor is especially anxious to read seconds, the moon only provides him with a clock moving 60 times more slowly, rather than 42,260 times more quickly.

Nevertheless, in spite of this serious defect, the advantage of knowing first the time given is correct is very great, if only we can properly interpret the indications of the clock, for besides the physical difficulty of reading an indicator which moves so slowly, there are theoretical difficulties of a grave kind in interpreting the indications. The moon does not move uniformly, but has countless vagarles or inequalities. We know now that they can all be We know now that they can all be deduced from Nowton's great law of gravitation by exact calculations; but these calculations require enormous lato provide a starting point. But when To provide a starting point. But when Flamsteed proposed the Royal Observatory at Greenwich, Newton had not yet announced his great law, and it was his surmised by Flamsteed that if sufficient observations of the moon were made, some general law would be found running through them good enough to enable sallors to read the clock.

able sallors to read the clock.

It must have required immense courage to set out on such a campaign.

Looking back on the history of our Royal Observatory, we may say that there was no more glorious moment in that history than the foundation.

Will It Come to This?

Bohemian.

He criticised the Show Trust, and He could not go to shows;
The Clothing Trust disliked him, it Would sell to him no clothes:
He found fault with the Food Trust, which Cut off his food supply;
And as he bucked the railroads, they Forced him to walk or fig.
In Billingsgate he sought to air His and and wretched lot:
But to his sorrow Lawson had Just cornered Tommy-rot.
The Whisky Trust had relt his taunts, He could not huy a drink;
But as no trust had cornered brains He still was free to think.
This man then thought unto himself:
"Fill hang me to a limb,"
The sympathetic Burial Trust
Refused to bury him.

Mrs. Aley Tweedie ways, in the Tattier: "It