A SONG FOR THE TWENTIETH CENTURY.

We tread a better earth to-day Than that the fathers knew; Than that the fathers knew: A broader sky line rounds away To realms of deeper blue. More ample is the human right, More true the human ken: The law of God has been a light To lead the lives of men.

He led our generation on In mist of smoldering fire: To more than all the centuries gone The marching years aspire. Across the onward sweep of time We strain our vision dim. And all the ages roll and dimb To lose themselves in Him.

We gaze upon the zons past-A blind and tumbling surge, And slowly, from the weltering vast Behold a low emerge. The water seems to heave and sway In chaos undenled, Yet not a foam finke goes astray, For He was wind and tide.

Oh, Purpose of the stumbling years, Oh, Wistful Need and Hope. Whereby in all the woven spheres The atoms yearn and grope; Flow through the wandering will of man A tide of slow. decree,

And merge our strivings in the plan That draws the world to Thee. -Chicago Standard.

me for help! Esther has treated me

"I'll give 'em a year to come back here and eat humble pie," said Martin

his wife. "One would think you be glad to have some evil

"And so I should,"

"Oh, Thomas, don't talk so!" said

and swept away his prospects as an autumn wind sweeps a sere forest. The cattle died, a pestilence broke out among the flock of sheep, which Thos.

Martin had just brought a high wind

the golden days of his prosperity. "There's Esther's husband," sug-gested Ruth. "I've heard that he is doing well in Boston. And, after all,

But it had to be swallowed. There

vindictively.

them!

ESTHER'S OPINION. By HELEN FORREST GRAVES.

Mr. Martin had just come in to tea. It was one of those sultry summer evenings when the leaves hang stir-wartin, beginning to cry, in spite of herself; "and it's a woman's duty to

evenings when the leaves hang stir-storm. lessly on the trees, and dull electric fires blaze along the east, foreboders of a storm. It had been very hot all day, the

farm-hands had lagged at their work on the lowland meadow, and all the world's wheels seemed to revolve as if

they were weighted. Mr. Martin was wery tired, and withal, a little cross. Perhaps Mrs. Martin was tired, too. Perhaps Mrs. Martin was tired toos. She, poor soul, had been up since four o'clock in the morning. She had I warn 'em, they need never come to washed, taken care of four cows' bilk, prepared three meals for the hungry farmhands, been up in the quarry woods to search for a family of ad-Prepared three hears prepared three hears woods to search for a family of ad-venturous young turkey-chicks, sooth-ed the sorrows of a teething baby, and mended up the suit of clothes which Betsey Blim, the tailores, had wheclared "not worth a needleful of Heccared "not worth a needleful of hears the source a state of ruln hears the source and the source of the s

But her checks were pink and her eyes sparkling when Thomas came in, for all the heaviness of her heart and the dull pain in her back, for little Esther had come home from boarding his wife

Esther, the youngest sister of all, the darling of the family-circle from which Mrs. Martin came, the pet for which Mrs. Martin came, the per tor whom they all had scraped and pinch-ed so that she, at least, might have a "Boston education." And Esther sat in the window-seat, in the provide seat, season, and I hope shell get it."

And esther sat in the windowseat, grown into a blooming young woman, with bronze-brown hair lying in fluffy masses over her fair forehead, porcelain-blue eyes, and a dress all trimmed with ribbon bows.

"Look, Thomas!" cried Mrs. Martin, excitedly, "it's Essie! Essie come home two days before we expected her!"

"Yes, I see," said Hr. Martin, in the cold, measured tones which always dampened his wife's enthusiasm like so many drops of freezing water. "How do you do, Esther? Ruth, what "How do you to, solution of the are you putting cold chicken on the table for? Corned-beef is plenty I table for? Corned-beef is plenty I to see how woefully she was needed at the helm. "I can't help it," said Martin. "I can't help it," said Martin. "Everything is against me." "It's only five hundred dollars," said "the Martin, "You might borrow it."

oppetites." "It's "Esther is fond of cold chicken," "It's whispered Mrs. Martin. "No one need want anything better "No one need want anything better" which

"Esther is fond of cold chicken," whispered Mrs. Martin. "You might borrow it." "No one need want anything better than good corned-beef," judicially pro-nounced Mr. Martin. "Put the chicken back into the pantry, and the apple back into the pantry, and the apple jelly with it. Good stewed gooseber-ries are relish enough for anybody. We must economize in little things as

We must economize in little things as well as large ones if we don't want to end our days in the poor-house." And Mrs. Martin sorrowfully obeyed, while Essie watched her brother-in-law with large, grave eyes betokening

At the end of a week, Mr. Martin Est. addressed his sister-in-law with seri-was no nelp for it.

"Well, Esther," said he, "you've "Bidin't suppose Smith's folks lived as genteel as this," said he to himself, been here

"Well, Esther," stud he, yourd as genteel as this," said he to himsel, as a neat maid ied him across an oc-tagonal vestibule, floored with black-and-red marble, and fragrant with flowers, under the golden fringe of an week

"A week is a good long visit, " marked Mr. Martin. "It's long enough for some things," said Essie. "Mrs. Martin thinks she would like "Mrs. Martin thinks she would like in sofa all betokened no lack of said teste. "Mrs. Martin thinks she would like to have you stay," went on Mr. Mar-tion, after a puzzled glance at the blue, shining eyes. "And although, of course every one adds to the expense in sofa all betokened ho "Mes.-Mr. Smith was at home. He had not yet gone to the store, and presently he came in, waving welcom-ings to the man who had married Esto giving you a home, provided you are willing to earn it by hard work."

a sigh, how was Stephen to know all that had come and gone? that had come and gone? Essie's light step, on the passage way, sounded at this instant; and she came in, dressed in a picturesque brown linen blouse; her hair still shading her forehead, like a fringe o floss silk, after the old, graceful fash-

"Yes," she said, brightly, when her brother-in-law's errand was stated to her; "of course you shall have it. I owe you as much as that, I think, Thomas, were it only to erase from pour memory that last scene of our parting. How defiant and insolent it was to be sure!" and she laughed the sweetest of mellow laughter. "But I insist upon it, still, that my theory was

insist upon it, still, that my theory was correct; a woman can work, without becoming a drudge." "Perhaps she can," slowly and un-willingly admitted Thomas Martin-"perhaps she can! But it didn't use to

be so, in my mother's days." And he sighed to think of poor Ruth, broken down in the meridian of her days, by the cruel necessities that drive the wife of an American farmer to her doom. Was it his own fault? Per-haps it was. Essie's thousand dollar loan was the

straw which saved him from figura-tive drowning. He paid the interest, bought a new flock of merino sheep, and weathered the storm. And the next year when Essie came to the form to accept the resider for "If Stephen Smith is foolish enough to marry that saucy gipsy, she'll lead him a pretty life," said he. "I wonder

to the farm to assist her sister, for the first time she found Ruth sitting on the piazza, and watching the little lambs play in the sunshine with listless, heavy eyes. "Yes," said Ruth, "I can't work any

with too much insolence for me ever to receive her again." "I am sure she did not mean anymore. But Thomas is very kind. He don't grudge the hired girl's wages, and he is always saying he wished he had taken more care of me in th But it's too late now You were right. Essie, when you said you ldn't stay on here, and help with the housework

' said Essie, fondling the thin 'Yes, hand which lay on the arm of the rocking-chair, "I think I was right" rocking-chair, "I thin ---New York Weekly.

QUAINT AND CURIOUS.

The propellers of the fast auto boats revolve 1250 times a minute, giving a speed of 25 miles an hour.

Of all the money transactions in the country, 97 percent are carried through by check; only 3 percent by notes or said Martin viciously grinding his teeth together. gold.

Every fire station in Berlin is equipped with an oxygen apparatus for re-viving persons overcome by smoke do a farmer's life-work in a season

and heat. Radium is the most remarkable sub-stance on earth. The energy that **a** gram will give out before it is entirey dissipated would raise 500 tons one mile high

blew his best barn over, and diaster stared him in the face on every side. "It's no use talking," he said. "I can't meet this year's interest on the Of the 12,703 newspapers and periodicals published in Germany, more than 27 percent are in other languages mortgage. The place will have to go." "Oh, Thomas!" groaned Mrs. Mar-tin, who, poor soul, now lay all day on a hard wooden lounge, and groaned han German, 9 percent being in Eng

Austin Smith of Clinton, N. Y., in the oldest living college graduate in this country. He celebrated his 100th birthday recently and was graduated from Hamilton college in 1826

A German statistician states that every year the dentists use about 000 worth of gold and that the ri gold mines in a few centuries will be gravevards and cemeteries.

There are upward of 80,000 inhabitants on the slopes and skirts of Vesuvius. If it were not for the fer-tilizing effect of the volcanic products more than one-tenth of that num-would be able to find means of subsistence there.

Walnut is only employed in France a cabinet and carpenter's work. In 202 the imports of walnut were 2452 ans and exports 5623 tons. During the last four years the imports have treadily declined, while exports have ncreased from 3660 tons in 1899 to ncreas 5623 tons in 1902.

El Cafetal, a coffee trade journal pub-

kept hanging round the threatened vessel, even while she is moving at low speed through the water. Such de-vices, combined with the keeping of a good lookout by means of fast scouts, TORPEDOES IN WARFARE THEIR SUCCESS IN CHILI, BRAZIL, CHINA AND JAPAN.

te cultivation of coolness and accura-te at gun practice by night as well as day, a proper knowledge of the ses and limitations of the searchlights

Nevertheless, the menace must always be a very serious one indeed.

It may be worth while to add that the Japanese are understood to be in

possession of a few automobile torpe-does of altogether exceptional size-having a diameter that is of as much

It will also be useful to add that at the opening of hostilities Russia may have had about 20 destroyers and 12 or

not fewer than 20 destroyers and 60 torpedo boats of various classes, all fit

BRAIN REST.

As long ago as 1883 Dr. J. Leonard orning of New York brought forward

this plan of managing functional nerv-ous disorders in a monograph entitled

the period of unconscious repose must

20 hours at a time, achieves the most

"As a rule," observes Dr. Corning, "I am in the habit of secluding the subject in a darkened room, eventual-ly for from 10 to 15 hours at a time, according to the amount of sleep it

is desired should be had during the

24 hours. I do not, however, attempt great things in the way of sleep at first; but, on the contrary, the dura-tion of the period of unconsciousness

striking results

to play an important part later

Some of these can scarcely

as 24 inches, or six inches more the biggest service torpedo of other nations. Whether any of these were with the fleet off Port Arthur is, how-

ever, doubtful.

in the campaign

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Low Cost of the Destroyer Devices by Which Battleships Hope to Escape Destruction by the Swift Mauses and imitations of the searching to with which every modern vessel is provided, and the maintenance of per-fect discipline in all circumstances, should deprive the torpedo and the tor-pedo boat of some of their terrors. chine.

The Whitehead automobile torpedo may be regarded as the parent of almost all the automobile torpedoes which are now in use in the navies of the world, writes Sir William Laird

Clouse in the London Telegraph. Our own service torpedoes, which are made at Woolwich, at Portland, and at Leeds; the French service torpedoes, many of which are made at Toulon; the Russian service torpedoes, which are made in Russia; the German service torpedoes, which are made in Germany-all owe their existence to the original inention of Mr. Whitehead, an invention now more than a genera-tion old; and although each national type differs somewhat from every oth er, each still bears a strong cousinly resemblance to the service torpedo which the firm of Whitehead makes to day at Flume, on the Adriatic, for such powers as have no torpedo manufacturing plant of their own. Among

these powers is Japan. It is true that the original White-head was a weapon that traveled on the surface of the water only, while the modern automobile torpedo is essen-tially a submarine engine. Many years, nevertheless, have now elapsed tially since the marvellous weapon, by steady volution, became extraordinarily per fect and formidable, although it is but right to add that its improvement has been continuing from first to last, and is not yet at a standstill. Strange to say, however the significance of the automobile torpedo as a factor in naval warfare is only now beginning to re-ceive adequate recognition. The veapon has always had its enthusiastic champions of course, although until quite recently they have been the few, while its detractors have been in the majority. According to some, the tor-pedo was little better than a bogey; according to others, it was suitable for use only against vessels at anchor, or vessels, with incompetent, if not criminally careless, crews on board; according to yet others, it could never be employed with advantage against ships of the civilized and well

Ships of the childed and werness plined races, especially if such ships chanced to be under way. It was admitted that the automobile torpedo had won success during the civil war in Chili, during the revolutionary fighting in Brazil, and during the conflict between Japan and China; "but," said the wiseacres, "wait until one of the leading naval powers is concerned, and then you will see that although the torpedo may be all very well against South Americans or Yelalth low Men, it won't work against civilized Europeans.

In spite of this sort of discourage-ment, which reached them from within the various services as well as from without, torpedo officers have never eased to study and develop their favorite weapon. They increased its speed from 10 to 12 to upwards of 30 miles an hour; they increased its range from 300 cr 400 to a couple of thousand yards or more; they increased its ex-plosive-carrying capacity from 30 to nearly 200 pounds; and they increased the accuracy of its submarine flight, both literal and vertical, until, even in a cross-running tideway, its pre-cision could be depended upon. By means of a device which is now being perfected in America the speed of the weapon can be increased to some 40 miles an hour up to 2000 yards. The process employed is a mere superheatprocess employed is a mere superior ing of the compressed air as it is fed from the "flash," or reservoir, to the driving machinery; and it involves little additional expense. We know now what the Japanese, acting not against careless and ignorant Celes-tials, but against the finest officers and best ships of a leading European navy. has been able to do with this perfected engine of destruction. No

pedo And this terrible torpedo, in its most highly developed form, costs only ut £400. . A big battleship cost: about 2400. A hig battleship costs anything from a million to a million and a half sterling; yet, as events have shown, it may easily fail victim to its small and absurdly cheap foe. Of course, I do not mean that the mere outlay of, say £400 is likely to be the sole expenditure involved in the crip-pling of a 13,000-ton Czarevitch. The torpedo, if used at sea, must be dis-charged from a vessel of some sort,

ever again decry the power of the tor-

TURKS LOSING NERVE.

A SER

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The Rev. a Text Compa of Jest

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Demoralization in the Army and Navy of the Sultan.

It is said that the Turkish soldiery is becoming demoralized to the point where displays of cowardice are com-mon, says the Chicago News. Some extraordinary instances of this are re lated by a recent traveller there, who declares that the Turkish troops have displayed their lack of nerve many times in recent encounters with insur gents. When actual fighting is to be done many of the soldiers seek seclu-sion in adjacent fields or escape the observation of their commanders by observation of their commanders by getting into streams and pends and immersing themselves in water up to the neck. It was near Uskub that a resort to this method of avoiding trouble was actually observed. An engineer corps had been summened hastly to the nearest bridge over the Vardar, where bombs had just thrown, and found the guard es ly placed there to protect the been bridge conspicuously absent. It took the of-ficers a considerable time to find what

had become of their missing men. Apparently the demoralization 15 serviceable seagoing torpedo boats at or near the scene of action. At the same period Japan had at her disposal of Turkey's fighting forces extends also to its naval vesels. There is a guard-ship at Salonika, a fairly modern look-ing small cruiser, lying year not, peacefully at anchor in the bay. One day an order came to the commander to take a cruise, and the con-sternation of that gallant officer was great, because no screw steamer can move without a shaft, and that had Medical Disquisition on the Curative Properties of Prolonged Sleeps. been sold some time ago. But he was a man of resources, and had a shaft made of wood, praying that it would break within the first few minutes. The wooden shaft held by some miracle, and as the cruiser slowly steamed out of the gulf the captain's sunk, for he had no desire to sea with a shaft that must sconer or later. So he sent below and sconer or later. So he sent below and had the shaft sawn half way through. A little extra steam and the desired result was accomplished, and the guardship was towed back "disabled." Some of the Albanians whose insur-rectionary operations have been an occasion for concern both to Turkey and to the powers which are trying to compele reform in that region are citcompel reform in that region are in the outer world. A writer who vis-ited an Albanian monastery says: ited an Albanian monastery says: "The fact that I write impressed these worthy friars greatly, and Padre Gloacchino, politician as are all Alba-nians, made a wonderful suggestion. 'Write a long article, my son,' he exclaimed enthusiastically. 'Thou know claimed enthusiastically. Thou know-est us and the bravery of my nation. Suggest an alliance against Europe that will assuredly destroy the bal-ance of the powers.' The alliance which the padre expected to overturn the balance of power was to consist of England, Italy—and Albania."

us Philostratus

Origen of Alexandria (185-254 A. D.) notes his sermons down in shorthand, and Socrates, the ecclesiastical histofirst; but, on the contrary, the dura-tion of the period of unconsciousness is progressively increased by the utilization or habit, hydrotherapy, ap-propriate focd, and, in urgent cases, and first century B.C. a discourse of Cato Uticensis, according to as much ac much according to Plutarch, was taken down by shore hand reserved by the service of the service of

cases the period of sleep is prolonged to as much as 20 hours at a time, the patient being awakened and given small quantities of nourishment and then allowed to sleep again. He warns, moreover, against the evils ac-cruing from attempts to keep in bed nervous, irritable persons while in a conscious condition. Such individuals should be told to lie down only on the appearance of drowsiness, which in intractable cascs, may be brought on by the moderate use of sedatives, during the latter part of the day, and exceptionally by the exhibition of hyp-

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"Brain Rest, a Disquisition on the Curative Properties of Prolonged Sleep," and in a subsequent edition, published in 1885, the whole matter

published in 1885, the whole matter of practical management was elaborat-ed to the last detail, says the Medical Record. Dr. Corning observes that "as applied to the brain, rest implies something totally different from that which is described by the term when used in connection with the muscle, joint or spinal cord. This radical dif-ference is chiefly owing to the fact that the brain being an organ, of the intellectual processes, rest in so far as it concerns that organ, means noth-

ing less than a cessation of mentali-zation, with all thereby implied. It is impossible by a mere flat of the will to cause cessation of thought; the very idea embodies a contradiction, for the will as physiologically underfor the will as physiologically acom-stood is itself a product of very com-plicated intellection, and cannot, there-fore, be regarded as a thing sui gen-eris—a something without the pale of other psychical processes." Only during sleep is the ideal repose of the cerebral faculties realized. But while a physiological amount of sleep is sufficient to achieve this in health, But

Greeks and Romans Used Shorthand. the period of unconscious repose must be greatly augmented when by over-taxation or inordinate mental strain the nerve ceil has become defitalized, and is no longer able to hoard up a sufficient store of energy during the usual period of unconsciousness. It is in such cases that prolonged sleep, a sleep continued for 10, 15, or even 20 hours at a time achieves the most The existence of stenography among the Greeks and the Romans is was a form of writing in which each word was represented by a special word was represented by a special sign. The letters of the alphabet, with modifications, connected so as to admit of great rapidity of execution, formed the elements of these characters. They date at least from the first

century before Christ. In the second century A. D. is found the term semeiograph (stenographic character) in the Greek orator, Flavi-

are willing to earn it by hard work. "Stop!" cried Essie, jumping up. "I haven't asked you for a home yet. And I don't mean to. And you are only making me the offer because if not to help each other with. Ch, model for a racing sloop, the s only making me the offer because Doctor Dorian says Ruth will break down unless she has a strong maid-work. But there is no money that would hire me to'make myself such a drudge poor Ruth is." "Hoity-toify!" said Mr. Martin. "Young woman, you don't consider "Yes, I do," said Essie, with em-bases "To a Blueheard to a stock." "To a Slueheard to a stock."

"Young woman, you don't consider whom you are talking to."
"Yes, I do," said Essie, with erspination of the set of

A jeweler in Turin has made a tiny The hull is model for a racing sloop, the sail is of beaten gold, studded with diamonds ad the hinnacle light is a perfect ruby. An emerald serves as its rudder and its stand is a slab of ivory. Its weight is less than an ounce, and it is said to have cost \$5000.

service. by men who must inevitably run some

Living for Ideals.

by men who must hereaft which are usually employed on torpedo work are small, costing, it may be, no more than from $\pounds 15,000$ to $\pounds 60,000$ apiece, and having That was a wise old clergyman who urged his brethren not to admit young men to the ministry unless they were evidently more broad minded and enbut small crews. Thus, there may be e side but £25,000 worth of mabe one side but $\pounds 25,000$ worth of material and 15 and 20 lives, and on the other a ship worth $\pounds 1, 200,000$, with 750 people on board; and, as we have tnusiastic in their faith than their el ders. "We must allow," he said, "for the inevitable shrinkage." The same allowance is necessary in every life for be career of the splendid machine. Even if the big ship do her worst in uch a case, she can do nothing ade-uute. Let her sink half a dozen of er twopenny-halfpenny opponents and more idealism we start with, the more such a task per sink half a dozen of her twopenny-halfpenny opponents and drown all their crews, she must still have run awful risks—risks which are quite out of proportion to the objects to be weined.

Is there, then, it will be asked, no way of safety for the big ship? Un-doubtedly there is. The nose of the Is there, then, it will be asked, no way of safety for the big ship? Un-doubtedly there is. The nose of the modern torpedo is furnished with a "cutter" which will shear a way through any ordinary steel net that may be hung round a ship for her pro-tection; but there are nets—and our inavy possesses them—which are cut-though at much inconvenience, can be

The long pipes that carry crude pe troleum from the oil wells to the re exceptionally by the exhibition of hyp-notics before retiring. Recumbency, then, is purely incidental, the prolong-ed unconsciousness is all. In thus fineries many miles distant are clean ed by an ingenious device. As the strenuously insisting on the radical flows through these underground con difference between cerebral and or dinary corporeal rest, Dr. Corning has rendered a substantial and practical proves a serious hindrance to the free passage of the oil. The device that is

used to remedy this evil is a knife about two feet in length, with a sharp edge, constructed like the thread of a screw; indeed, the knife resembles a huge headless screw. It is, of course, slightly smaller than the pipe, through which it is to pass. When the thickness of the crust of paraffin renders a cleansing necessary, this instrument is inserted in the pipe at the oil fields. The pressure of the stream of oil hurries along, and scrapes the channel clean. It turns and twists and cleanses in this manner throughout its whole journey, and finally drops from the pipes in the midst of the vast stream of petroleum that empties into the re ceiving tanks. Its edges are duller than when it set out on its journey, but otherwise it is in perfect condition It is at once shipped back to the oil wells, where it is sharpen away until its sharpened and laid needed.

The authorities in charge of the telephone service in Japan have decid-ed to employ only girls, both for day and night duty, at the various exchanges.