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Enission, appointed to consider the edu-cation and training of officers of the army. Their report showed that cadets had 'little inducement to work at army. Their report showed that chocks had "little linducement to work at Saidhurst and instructors little in-ducement to teach.' Most of the mili-tary text books in use were found to be antiquated and obsolets. There was no insistence on a high standard of pro-ficiency. To get through with as little rouble as possible was the dominating ides. Neither as regards knowledge or character was the training of the kind necessary to produce competent officers. "The commander-in-chief,' said the report, 'has expressed bimself as dis-satisfied with both the technical and the general education of the officers, and many witnesses have stated that it is no uncommon thing to find officers unable to write a good letter or to draw It is no uncommon a good letter or to draw up an eligible report. That this is no exaggerated statement I can vouch. I have had officers come to me for in-struction-rich men's sons and former pupils of our much vaunted public schools-who told me they were ashamed of being dependent on others to write their reports for them and show them how to perform their du-

NO IMPROVEMENT.

"But the Akers-Douglas report was made more than two years ago. Surely things have been improved since then,"

things have been improved a bit," said "They have not improved a bit," said Dr. Maguire, decisively. "In some re-specta they are even worse than they specta they are even worse than they were then. If anything could be more were then. If anything could be more humiliating than that exposure of the contemptible inefficient training and

contemptible inefficient training and gross ignorance of many of our mili-tary officers it is the fact that, sithough more than two years have since elapsed nothing has been done to remedy the defects pointed out. "In an address at the Woolwich Roy-al Military academy--which, though much inferior to West Point, is consid-erably shead of the Sandhurst institu-tion-delivered a year after that report had been published, Lord Roberts complained that the examinations whowed that the candidates were "strangely deficient' in 'spelling, know-ledge of the English language and map reading." To properly appreciate the reading.' To properly appreciate the significance of this censure it must be significance of this censure it must be understood that Lord Hoberts was ad-dressing young gentlemen who had ceased to be cadets, and having passed the entrance competitive examinations were about to join the commissioned ranks of the British army. It would be utterly impossible that such words could ever be spoken of West Point graduates. For such gross ignorance of rudimentary branches of learning they would have been dismissed long before their final examinations were reached. It was stated in a leading journal re-cently that in general education and ca-pacity board school boys are far superpacity board school boys are far super-lor to the average Eton, Harrow and fashionable school boys. If the latter schools be not speedily reformed or abolished the richer classes of England will soon be decadent. "We have profited nothing by the nu-

"We have profited nothing by the nu-ingrous 'regrettable incidents' of the Boer war that were so largely due to the incapacity of commanding officers. Only a few days ago Gen. Hutchinson issued a report on the examination for promotion of officers in the regular army which reveals a state of ignor-ance among many of the candidates, that can only be characterized as dis-graceful. General Hutchinson states that bad spelling and inability to exgraceful. General Hutchinson states that 'bad spelling and inability to ex-press themselves clearly' were the fall-ings of a large number of them. Many of them showed that they were unfit for the duty of instructing non-commis-sioned officers and men owing to be-ing themselves insufficiently instructed. ing themselves insufficiently instructed. The general deplores the fact that the neglect to keep their military knowl-edge up to date by reading and study, as men in other professions have to do. He describes the results of the axim-inations in military engineering, tac-tics and topography as 'indifferent.' the resulties results of the suppression of the second term of the second second second second second terms and topography as 'indifferent.' the failing to appreclate the situations in the problems given them to solve, the 'majority of them ignoring the enemy or giving him credit for little intelligence.'

DESERET EVENING NEWS: SATURDAY, JANUARY 7, 1905.

THE GIGANTIC JAPANESE BALLOONS.



The above pictures give a very comprehensive idea of the great balloons that the Japanese used to such splendid advantage in the long seige against Port Arthur. Their air scouts sailed over the beleaguered forts at will in these immense air machines and took account of the position of the enemy whose guns were unable to reach them. Perhaps balloons never before have been used to such excellent advantage as in that part of the war

"Lest it be thought that I am too severe on our public schools let me read you some things that A. C. Ben-son, himself an Eton master, has said

of them: what is more serious. I do not see any evidence that it is tending to become ligher. . . My own bellef is that a good many boys have the germ of intellectual life in them, but that in a good many cases it dies a natural death from inanition. . . Unless ^o It must be frankly admitted that the intellectual standard maintained at the English public schools is low, and, what is more serious, I do not see any endome, that to be reading to be any a boy is very keenly interested in in-tellectual things his interest is not likely to survive in an atmosphere which is all alive, indeed, but where intellectual things are to put it frankly, unfash ionable AMERICA COULD WHIP ENGLAND.

the spirit below 68 degrees F. The principal objection to the use of alcohol, however, is its cost, which, to compete with gasoline, should be about 20 cents a gallon, or half the present value in France. The alcohol motor is rapidly gaining popularity in Germany, where methylated alcohol can be had for about 18 cents.

The celebrated herd of white cattle that has roamed Chartley park, Staf-fordshire, for 700 years, is to be given a new home, and it is hoped that with care they will thrive and increase. The

wild cattle of English parks were long regarded as direct descendants of the wild aurochs, but are now believed to have come from domesticated albino breeds.

The economy of high-pressure steam has been demonstrated on French loco-motives. From experiments on five types of engines during three years, J. Nodal has found that variations of speed from 25 to 50 miles an hour have speed from 25 to 50 miles an hour nave little effect upon the steam consump-tion per horse-power hour; but that the consumption of 21 to 22 pounds per horse-power hour with a boller pres-sure of 200 to 213 pounds per square inch rises to 25 to 26.5 pounds with a pressure of 100 to 125 pounds.

Two of the world's interesting main-mals have lately become extinct with-out attracting attention. An English naturalist points out that the great straight-horned race of the Indian straight-horned face of the indah buffalo, which was occasionally met with 50 or 60 years ago, is no longer known. The other vanished form is the wolf of the Falkland Islands, a type of considerable importance which of considerable importance, which seems to have been exterminated by strychnine about 30 years ago.

Tin ore has been found in the Caro-linas, the Black Hills of South Dako-ta, southern California and Alaska, with traces in Maine, New Hampshire, with traces in Maine, New Hampshire, and elsewhere. Thus far, however, tin has never been profitably mined in the United States. The work accomplished in recent months at Nigger Hill, South Dakota, seems to give promise of good results, two ore bodies of 150 by 59 feet and 90 by six feet respectively, proving to have an average value of \$6.75-per ton.

Rheumatism seems to be practically unitiown In Japan. A French observ er attributes this to the sobriety of the people, their vegetarian diet, and their great use of water. They not only drink large quantities of pure water, but/ take two or three baths dally thermshout the water. throughout the year.

Late experience in the British navy has Juggested that loathsome disease may be spread by tattooing, and those who must decorate in this way are warned that the needles should be ster-

Another Good Man Gone Wrong.

Another Good Man Gone Wrong. He neglected to take Foley's Kidney Cure at the first signs of Kidney trouble, hoping it would wear away, and he was seon a victim of Bright's disease. There is danger in delay, but if Foley's Kidney Cure is taken at once the symptoms will disuppear, the kidneys are strengthened and you are soon sound and well. A. R. Bass of Morgantown, Ind., had to get up ten or twelve times in the night, and had a severe backache and pains in the kid-neys and was cured by Foley's Kidney Cure. For sale by F. J. Hill Drug Ca.



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that brought about the fall of Port Arthur. It is the cult of decadence: it repre-sents the abasement of intellect. | ments. You pay them only \$8,000 a year, carburger before starting is necessary where the abasement of intellect. | each. We pay ours three times as on account of the slow vaporization of each. We pay ours three times as much. Yet when Elihu Root comes over here to settle the Alaska boundary

question he easily scores over our highsalarled law officials. "If, after America has brought her havy up to the high standard which she aims at, we should ever have the

training. I submitted the above inter-view to Dr. Maguire before sending it to you. It has received his full approval. He expressed the hope that the com-ments elicited by its publication in America would produce some sent in America would produce some effect in

IGNORANCE OF BRITISH OFFI-CERS.

CERS. The is appailing to reflect what disasters such incompetency as is here shown would lead us into if we were engaged in a war with a first class power-with Russia, for instance, for the possession of India. The hould be borne in found that the hortcomings to which Gen. Hutchins no reflix attention indicate not merely defective military training, but import, therefore, constitutes quite as much so indictment of our swell public schools—Eton, Harrow, Rugby and where they receive their professional where they receive their professional were they receive their professional terms. where they receive their professional

tuition

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WORST SCHOOLS IN THE WORLD.

The truth is, our fashionable Eng-

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"The degradation of education which is fostered at these institutions," the doctor continued, "is vitally connected with the question of army efficiency, be-cause a desperate effort has been made and is still being made to limit the se-lection of officers to candidates from certain swell schools and universities. It has been abundantly demonstrated that many members of the cabinet, and with the question of army efficiency, be-cause a desperate effort has been made iection of officers to candidates from certain swell schools and universities. It has been abundantly demonstrated that many members of the cabinet, and many of the war office authorities, too, would prefer as officers wealthy idlers from fashionable schools, who would display hopeless incapacity in war, to able mon who have been well educated at private day schools or by private

"Despite all the cosily lessons we have received as to the vital need of scientific training for our officers, the army advisory beard-dons and school-



arousing the authorities here to the need of instituting immediate and aweeping reforms. E. LISLE SNELL. Rev. Carlisle P. B. Martin, L.L.D.

SCIENTIFIC MISCELLANY. Principles of construction that ar-

childers in the solution of th angular, others quadrangular, and so on, and it seems possible to give a mechanical explanation of the differences. Builders have adopted the gir-der as the most economical method of resisting a strain in one direction. Plants seem to have built on a like plan, tree-trunks being round to resist strain tree-trunks being round to resist strain from all directions, while plants with opposite leaves and strain in two di-rections have two girders, giving a quadrangular stem, and triangular and pentagonal stems may be accounted for as strengthening against like obvious strains.

strains.

The secret of the extermination of rats and mice is claimed by the Pasteur institute. In their experiments to re-duce the ravages of these pests over five square miles of French fields, or-chards and vineyards, several tons of bread and oats were impregnated with certain microbes that seem to be fatal to these animals and harmless to others, and this paste was scattered over the and this paste was scattered over th ground. The effect has been astenfah ground. The effect has been astonfsh-ing. The rats and mice have been de-stroyed in enormous numbers, and it is estimated that not more than five per

ent survived the first application. The great Victoria Falls on the Zam-

The great Victoria Falls on the Zam-besi are estimated by British engineers to represent 25,000,000 horse power, or five times the power of Niagara, with some diminution in the dry season. It is proposed to develop the power for ir-rigating Rhodesia, operating the mines on the Rand, etc. The spray, thrown 500 feet high and scattered as fibe rain, is expected to interfere with high-ten-sion electrical transmission. tion electrical transmission. A new type of compound gas engine

has made a suggestive record. The en-gine has two high-pressure cylinders gine has two high-pressure cylinders and a single low pressure cylinder be-tween them, and the exhaust from one high pressure cylinder is expanded at every forward stroke in the low-pres-sure cylinder, the crank of which is 180 degrees behind the high pressure cranks. An impulse is thus given every half revolution. The high-pressure cylinders, working on the Otto cycle, give one impulse at each revolution, and when these were tested alone a 12-horse power engine developed only 8.9 brake-horse power, while the result was 13-horse power when the low pressure cylinder also was used. The power is therefore increased 46.2 per cent by the use of the low-pressure cylinder, with-out any additional fuel consumption.

The calorific values of various fuels used in internal combustion engines have been compared by L. Levi, a French engineer, with these results in British thermal units per pound: Methylated alcohol, 10.620; a mixture of equal parts of methylated alcohol and gasoline, 14.200; crude American oil, 19.630; refued American oil, 19.830. With muxed alcohol a little warming of the unmixed alcohol a little warming of the

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