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THE CANADA

EDUCATIONAL MONTHLY

DECEMBER, 1898.

THE ONTARIO EDUC'L SYSTEM AND VOLUNTARY SCHOOLS.

LAWRENCE BALDWIN

Barrister, etc.

The Ontario Public School system | by. has in it much to be commended: but while it is so generally lauded surely we cannot be so blind as to see no defects in it, or so provincial in our conceit as to ignore the practical work and experience of other countries. Before considering any definite proposal which might strengthen the Ontario Public School system and increase its influence, let us view some aspects of its practical work. That it is mechanical, no one can deny. aims at turning out every child educated in a Public School in accordance with a general average. It takes no account of one child physically strong and another physically weak, one mentally strong and another mentally weak. It cannot concern itself about the future calling or position of its pupils, except as limited to each school section as a unit, and then only governed by the law of general aver-So mechanical has this system become that no one, I venture to say, takes the least interest in the election of trustees as educationalists. restrictions in our system reducing the whole to a machine have, I believe, deprived the parent of any interest he might otherwise have in the schools, and he cares less who controls them. We never hear of a trus-tee seeking election on any policy looking to the betterment of the system, or the work accomplished there-

by. In common decency the aspiring trustee parades, at the time, economy and efficiency as the grounds for his election, and then, alas! that is the last we hear even of these.

So mechanical is the system that no parent can take any personal interest in the education of his children. What interest can he take when he has no choice? But to the school of his section his children must go whether he likes it or not, whether this school is suitable for his children or not. has a very serious effect upon the relationship of parent to child. acknowledged that the responsibilities resting on a parent towards his child have the best possible influence with him for good. And in so far as the State assumes to lift this responsibility from the shoulders of the parent an injury is done to the community. Again, how is it that the average length of service of a Public School teacher is so short, and that so many use the position simply as a stepping stone to other walks in life? Is it not that the limitations and restrictions in our system give no opportunity for the capable teacher to put forth his best efforts and to reap his due reward? Like the school trustee passing on to aldermanic and parliamentary honors the Public School teacher forsakes his calling as a teacher, and takes to some other more lucrative profession, all the public money spent upon his train-

of Pedagogy being lost to the State. Notwithstanding all this some refer to the Ontario system as a liberal and efficient educational system. can it be liberal and effective, I ask, when it is so restricted both in quantity and quality? Even the practical esults of its own restricted sphere of sork are at times severely criticized. return for the cost of maintenance.

"whole or any large portion of the "education of the people should be in "State hands, I go as far as any one in "deprecating; all that has been said "of the importance of individuality of "character and diversity in opinions "and modes of conduct involves, as | "of the same unspeakable importance, "diversity of education. An educa "tion established and controlled by "the State should only exist, if it exist "at all, as one among many competing "experiments, carried on for the pur-"pose of example and stimulus to "keep the other up to a certain "standard of excellence."

Now, will the affiliation of Voluntary Schools, with our present system, accomplish any good? Let us consider, for a moment, what we mean by the affiliation of Volunitary Schools. At the present time we have in existence many private schools which, according to their efficiency, or special inducements, attract the interest of parents who see in such schools an opportunity for securing some instruction, or some accomplishment, not obtainable in our Public Schools. At present these schools stand apart from our State system of education, and it naturally follows that, in order to have sufficient income to maintain efficient work in them, the standard of the fees must be made so high as to be prohibitive to the average citizen, who already has very probably paid heavy taxes towards

ing in the Normal School and School These private schools can thus alone be patronized by the wealthy class: while the less fortunate in this world's goods are forced to limit their children's education to the restricted, illiberal, and possibly inefficient Public School of his section. In the affiliation of Voluntary Schools we contemplate the recognition by the State of all the splendid work accomplished by and acknowledged to be an inadequate private enterprise under certain condi-The usual conditions required tions. John Stuart Mill says: "That the in Voluntary Schools before receiving recognition by the State are properly qualified teachers, a proper standard of efficiency in the secular instruction pertaining to elementary education, When the and public inspection. Voluntary School has satisfied the State as to the efficiency of its work, it is recognized as a State School, and entitled to a grant from the public funds in proportion to the number of children educated therein.

In order that I may be more explicit, let me here set out a definite scheme for the recognition of Voluntary Schools as part of the State system of education.

NATIONAL SCHOOL SYSTEM RECOGNIZ-ING VOLUNTARY SCHOOLS.

"TAXATION."

- 1. All ratepayers to contribute to a common building "fund" necessary to meet the cost of providing accommodation for all Public School children not attending Voluntary Schools.
- 2. All ratepayers to contribute to a common educational "fund" necessary (with the Government grant) to meet the cost of imparting elementary secular instruction to all the children attending Public Schools (including Voluntary Schools).

"VOLUNTARY SCHOOLS."

3. Any school conducted in a suitable building provided at the cost of the support of the Public School. its supporters and (a) having an aver-

age attendance of at least thirty pupils | a large amount on the site and the maintaining a standard of efficiency in secular subjects and (b) using the Public School text books and (c) employing as teachers only those holding Public School certificates, to be entitled, on the written application of at least twenty heads of families resident in the school district, to have such Voluntary School placed on the list of Public Schools subject to the same inspection, and to share in such edu cational fund according to the average attendance, as in the case of other Public Schools.

INSTRUCTION IN SPECIAL SUBJECTS.

5. In Voluntary Schools special classical, scientific, commercial, mechanical, religious, or other instruction may be imparted to the pupils. vided, however, that it in no way interferes with the efficiency of the work of imparting the elementary instruction required by the State curriculum.

Let me explain by example the working out of such Voluntary School system. Let us assume that we have a locality with one Public School building with ten class-rooms, accommodating 500 children; and that this building is accessible to all who require to make use of such school. This school may be sufficient for a time to accommodate all the children of that locality; but as the population increases a greater demand will be made on the school than it can meet. The trus tees are then forced to the expedient of procuring a new site or renting rooms elsewhere. Let us assume that over and above the cost of providing accommodation it costs on an average \$10 per annum to instruct each child attending the Public School. In the above example this would amount to \$5,000. Now, in order to meet a demand for increased accommodation, should the trustees decide to erect a new school building, they must first expend of only \$1,000. In this way parents

erection of buildings, and then continue to expend at the same rate \$10 per all num for each child. Let us as. sume that increased accommodation is required for 200 children. Let us alsassume, for instance, that there at two religious bodies in the community having suitable buildings under their control, each capable of accommodating 100 children; together they would meet the total demand for increased accommodation. All the children would be provided for, and the municipality saved the expense of procuring a site and erecting buildings.

Let us consider one of these Voluntary Schools in working order fulfilling all requirements as to elementary secular instruction. This Voluntary School would be entitled to an annual grant of \$1,000, no more than the cost of imparting the same secular instruction to the same number of children in the Public School. maintain all the work desired in such Voluntary School it may be necessary to raise additional funds by voluntary subscriptions, or fees from those in sympathy with such school, or availing themselves of its privileges.

Now, what reasons are there for hoping that Voluntary Schools will receive such support? First, the fact that one can obtain in them for his or her children religious instruction. Secondly, the desire in educating children to obtain something more than we have a right to obtain in Public Schools at public expense. If these reasons do not exist in any one section of the community no demand will there be made for the introduction of Voluntary Schools and the Public Schools will accomplish the work as at present.

Let us assume that the municipal grant of \$1,000 is supplemented by a voluntary grant of a like amount. We would then have \$2,000 to expend on the education of 100 children instead

education for their children, and the State reap an advantage in having even a portion of the community more liberally educated; and at a smaller cost to the State than under existing circumstances. By the introduction of Voluntary Schools, and their affiliation with our present Public School system, parents could associate themselves together in order to secure for their children, by united effort, an education, not alone embracing the elementary secular instruction required by the State, but also other, and possibly better, secular work. Voluntary Schools would afford opportunities to religious bodies to secure for the chilreligious instruction they desire, dogmatic or undogmatic as they please. "Financially it seems to me to be the height of folly," writes the Duke of all agencies—zeal for religious truth— "voluntary societies, and all churches in paying them for their work as tested shown by practical experience in other countries. sums may be saved in any city or town in Ontario where the population is dense enough to justify their introduction.

The taxation necessary for the main tenance of the present system of Public Schools is now recognized to be a heavy burden on the community. An item of considerable importance in the expense is the amount required for the purchase of school sites and the erection of school buildings. For example, in Toronto we find that the average

would be able to procure a better cost for each child for accommodation alone is about \$50. That is to sav. in a school accommodating 500 children, the site and buildings have cost the municipality \$25,000. assuming that we should have only ten Voluntary Schools in Toronto, each accommodating 100 children, in the aggregate this would represent 1,000 children, or what is equivalent to two ordinary schools. The city might be saved in this way the direct expenditure of \$50,000. At the same time the secular instruction would be at least as efficient in the Voluntary Schools as in the Public Schools, and the cost to the municipality of imparting the same secular instruction no dren of their own communion the greater than in the Public Schools. As a matter of fact, Voluntary Schools must be more economical to the municipality, because, while no public money will be expended on them un-Argyle, "to discourage the greatest of less the work they accomplish is up to the required standard, in Public "in persuading men to support effi- Schools the money will be expended "cient Voluntary Schools in which they no matter how inefficient the work in "take an earnest interest. I should be any one of them may be. Further, prepared to deal equally with all Voluntary Schools will enable an association of parents to do more for their children than can be done in an ordi-"by such methods as may be deemed nary Public School. In other words, "best." That Voluntary Schools would they will enable parents to build upon eve our municipalities a large amount the elementary work of the Public sow expended on sites and buildings is School, and to add to this, at their own cost, other instruction, and pos-They will certainly be sibly more thorough secular instrucfound to be a means by which large tion, without adding any additional burden to the taxpayer.

Another matter worthy of consideration is the fear of the spread of contagious diseases. This danger is five times greater in one school of 500 children than in five schools of 100 children each; in addition, the loss when the school has to be closed on this account would be proportionately less in the case of Voluntary Schools. where isolation would be more complete and more easily obtained.

One great objection brought against

the Voluntary Schools in England, where such schools are the National Schools of the country, is that in localities where only one school exists and that a National School, namely a Voluntary School under the control and management of the Church of England, Non Conformists must send their c'uldren to it, while at the same time they conscientiously disapprove of the religious instruction imparted therein. No such objection could be made in Ontario. The present Public School system is well established so far as it goes. There would be in every district at least one Public School common to all. Voluntary Schools would only be introduced where the population is sufficient to justify such a step. Their introduc tion can in no way injure the effici ency and work done in the Public School, nor trample on the rights of any; while it is admitted by practical educationalists that they would vastly improve the general education of the country.

The Ontario Public School system is surely needlessly restrictive. By the affiliation of Voluntary Schools we would introduce just that flexibility that is needed to make the system thoroughly effective and national in character. Their introduction would arouse parents to a greater realization of their responsibilities in the matter of the education of their children. Besides they would promote the interest of the teachers, and induce the capable instructor to continue his devotion to so important a calling because he would know that more than average ability in the teacher might command more than an average recompense. They would also out to him the possibility of enlarging his sphere of usefulness beyond the restricted curriculum of the Common School.

If I am wrong in principle or practice in my advocacy of the scheme by the supporters of such schools.

which I have proposed I am anxious to discover the fallacy of my position; but when I find the principle of Voluntary Schools supported by "Methodists," "Presbyterians," "Anglicans," "Romans." "Undenominationalists" and others, and in fact acknowledged in Ontario to some extent in our State University with Voluntary Theological Colleges affiliated, and again in such schools as Upper Canada College, the Model and High Schools, and Collegiate Institutes I ask why cannot the principle be applied generally to our Public School system which can be done by the affiliation of Voluntary Schools.

I have referred to the religious bodies in the practical working out of the Voluntary School scheme, because they have a recognized place in our midst, and further because they already have buildings attached to their places of worship which might readily be made available for school purposes, and in fact some of these are now used as Public Schools. The fact that these buildings, many of them quite costly, now stand idle for six days of the week makes it quite plain that in them there is a considerable financial loss which might be avoided were it possible to make use of them for educational purposes.

Some fear that in Voluntary Schools we see the State undertaking to impart the religious instruction peculiar to one or other religious communion. But it is really nothing of the kind. On the contrary it is the Voluntary School which, while imparting the religious or other special instruction desired by parents, undertakes to impart for the State the elementary secular instruction of the Public Schools, and this under State inspection and by teachers authorized by the State. cost of maintaining any special instruction outside the curriculum of the Public School will be met voluntarily

any such Voluntary School scheme means the breaking up of our Public School system. In England and elsewhere board Schools have grown in the face of well-established Voluntary Schools, and it is perfectly right that for those who are enamored of an educational system without religious or any other special instruction, they should have schools to their liking, provided that in them there is no lack of efficiency in the elementary secular instruction required by the State. How, then, will the affiliation of Voluntary Schools break up the Ontario schools? If it is true that private enterprise could in this way surpass the work and efficiency of the present what is already well established.

Others fear that the introduction of Public School, and by so doing attract the children of the community to such an extent as to injure the Public Schools, the sooner we remodel our system the better. If our present Public Schools cannot stand competition, what value are they to the public? I believe that, as a matter of fact, the affiliation of Voluntary Schools will extend the influence and work of our State system of education, and make the system thoroughly national and complete.

> The introduction of Voluntary Schools needs no revolution in our present system. It is, as I have stated, but the extension of the same system, and the harmonizing of individual effort with

PUBLIC SCHOOL LEAVING EXAMINATION.

PRIN. E. H. ELLIOTT, Maple Public School, Ont.

That the P. S. Leaving Examination schools and the suffering teachers. tions connected with the weal of the Public School is not to put the matter too forcibly. If it is true that ninetyfive per cent, of all in attendance at School belong to the Public School, it is therefore a truism to assert that all influences and conditions which tend to increase or diminish the efficiency of the Public School are of supreme importance.

It was noticed a few years ago that the Entrance Examination was evidently the limit in education, so far as a large proportion of the school population was concerned, so to retain this large proportion in our Public Schools another year, not to send to the High Schools better equipped pupils, the P.S. Leaving Examination was launched upon the already over crowded Public amination was intended to be the goal

has been much in evidence of late is to However, the great majority of teachstate the matter very mildly. That it ers, feeling it to be lamentable that has so developed in magnitude that it parents would allow their children to has become one of the burning ques- end their school-days with the Entrance Examination when many of them would make, if not brilliant students, at least men and women of influence in their community, lent their sympathy and support to this worthy scheme.

Unfortunately this examination has been sadly abused and diverted from the primary object it had in view, and, instead of its being taken only by those pupils who did not intend taking a High School course, we find that in many places it has largely been substituted for the Entrance Examination to High School.

We believe it to be quite within the bounds of truth to assert that, since its inception, the number of Public School Leaving certificates has not averaged twenty-five per county,—and this exfor which the 95 per cent. who never attend a High School should aspire.

Where lies the difficulty? Do the High Schools attract all the senior pupils as soon as they are ready for Fifth Form work? Are Public School teachers not properly qualified? Have teachers of rural scholars too little time to perform so much work? the examination too difficult?

No doubt the High Schools have, in the past, been guilty of attracting the cream of the senior Public School pupils, but this fact is not to be deplored for, perhaps, in nearly every case where a pupil begins a High School course he continues it for more than one year, thus advancing farther than he would had he remained in the Fifth Form of the Public School for a single Further, no one, we believe, would argue for the retention of this class in the Public School merely to prevent it attending High School.

Are Public School teachers properly qualified to teach the Fifth Form? they are not, it is a reflection either upon the High School programme or upon the work done in High Schools. Granting there were some grounds for such an assumption in the past, in the case of Third Class teachers, this difficulty must now speedily disappear with the abolition of Third Class certificates.

Have teachers of rural schools too little time to perform so much work? Rural school teachers, who have not had experience in this work, will, we believe, be quick to answer in the affirmative. But those who have attempted the work have been surprised that it causes no more friction than it Those teachers are scarce who are too busy to do something which they are fond of doing, which they feel their duty to do, and which they have the ability to do. Yet, 11ght here, we are bound to say, lies a very great and serious difficulty, one which, to a considerable extent, handicaps the teacher who attempts to do Fifth Class elegant expression, oral and written,

work in a rural school. He has practically to solve the problem of how to do eight or nine hours' work in six How can the work be done hours. advantageously?

When we remember that this is a Public School Leaving Examination we do not feel inclined to decry it on the ground of its being too difficult, for it is intended to represent the education which the boys and girls of Ontario are given during their whole school course. Yet it is doubtful if any High School teacher would be willing to accept this examination as a test for promotion from his First Form to the Second Form. This we consider to be one of two causes which led to the great number of failures last July. The papers, especially in English Grammar and Arithmetic, were too difficult.

Now, since it is evident that the existing condition of affairs is unsatisfactory, let us ask and briefly answer what is the nature of the programme that should be provided for advanced pupils in rural schools? It should be borne in mind that the majority of these will never attend a High School, and therefore the work should be of such a character as will prepare them for their peculiar life's work and for the enjoyment of life rather than work that will give them a certain standing in a course they never intend to take. Algebra and euclid should be unmercifully dropped from the course. A superficial knowledge of them can be of no practical value. The arithmetic course is properly considered too long, Public School Leaving candidates being asked to do nearly the same work as Primary candidates. Such an important subject, however, should not be neglected -especially commercial arithmetic, dealing with interest, taxation, insurance and annuities. Composition also should receive much attention, for the man or woman having the power of is thereby relieved of that apparent bining various classes in certain sublack of refinement, or rusticity which too often clings to those who have always lived in the country. From the fact that a fondness for the beautiful in literature is capable of giving so much pleasure, English literature should therefore receive all the attention possible. Elaborate book-keeping, such as is required for the Leaving Examination, is not required in the country. The drawing up of accounts, the filling out of promissory notes, cheques, etc., might be very well taught in connection with commercial arithmetic.

Drawing does not perhaps occupy too much of the country boy's time. Much of the time spent in this work might more profitably be spent in an examination of plants, when skill in drawing their various parts would be acquired. To these subjects might be added the history of our own country, and a simple course in science.

graded schools. In the ungraded our country have received their trainadvantage of economizing time by com- covered in one year.

iects. The ingenious teacher will find many ways to teach a class that is composed of pupils of unequal attainments. It is not our purpose to show how this can be done, but to say that it must be done. The possession of this ingenuity, along with teaching-power, energy and sympathy, will go far in aiding the rural teacher to overcome the many difficulties which confront him.

But, when all the circumstances are considered, it does seem that the Public School teacher has a grievance. The maturity of mental development expected in pupils so young, the extent of the work to be covered in a year, along with the vast amount of work required to be done with the lower, classes, tend very seriously to accentuate the difficulties of conducting a Fifth Class in the rural school. Although few would grant that the best results of teaching can be calcu-It is generally supposed that the lated in per cents, yet the efficiency teaching in the rural school must of of the teacher is very often measured necessity be inferior to that in graded by examination results, and much has schools, from the fact that in the to be conceded to this would-be pracgraded schools only one grade of tical age, which demands tangible repupils has to be attended to; but this sults. • We are not contending so will depend in large part upon the much for the abolition of the Fifth teacher. It is an undisputed fact that Class as for an opportunity to do good there are many rural schools where work. This, we believe, might be to the results are superior to those in a large extent effected were Fifth Classes excluded from schools having rural school many of the great men of less than three or two teachers, and were some such changes in the pro-The judicious teacher of an gramme as those suggested above ungraded school will at times see the adopted, so that the work can be

The largest school for manual training in Sweden, in the city of Naas, celebrated its twenty-fifth anniversary. All those who wish to teach manual training in any form go there for a thorough preparation and have elaborate courses of study. All instruction is given free of charge and includes pedagogics of manual training, history professional training. of pedagogy, psychology, drawing,

woodwork and gymnastics. als, tools and dwellings are furnished by the government; articles produced are the property of the maker. number of teachers studying here is over 200 annually. Many foreign teachers from Germany, Scotland and Denmark go there for

THE PROFESSION OF CIVIL ENGINEERING.

By Stephen M. Dixon, M.A., A.M.I.C.E.,

Professor o Vivil Engineering in the University of New Brunswick,

we will go back to the year 1818, when the institution of civil engineers was founded. In the charter the institution is defined as "A Society for the general advancement of Mechanical Science, and more particularly for promoting that species of knowledge which constitutes the profession of a Civil Engineer, being the art of directing the great sources of power in nature for the use and convenience of man, as the means of production and of traffic in states both for external and internal trade, as applied in the construction of roads, bridges, aqueducts, canals, river navigation, and docks, for internal intercourse and exchange, and in the construction of ports, harbors, moles, breakwaters, and lighthouses, and in the art of navigation by artificial power for the purposes of commerce, and in the construction and adaptation of machinery, and in the drainage of cities and towns."

But since 1818 engineering has been revolutionized by the introduction of steam, which not only made possible works of much greater magnitude than could have been attempted before, but added to the already numerous branches of the profession one that has now for many years taken the foremost place—railway engineer ing. Later still we find the field of work of the engineer much increased by electricity and its applications.

It is important to remember that, as the engineer was at first a man skilled the Nile. The canal, which was thus one of the earliest works in the regulation of rivers and irrigation, may still be used, to embrace all be seen. The Pyramids, whether engineering other than military. This is contrary to the general use which servatories, as the late Mr. Proctor so divides engineering into three groups ingeniously urged, are at least lasting

To find a definition of engineering —civil, mechanical, and electrical. Example in the year 1818, when the institution of civil engineers was a surveying or sanitary engineering distinguished from civil engineering, which in this case means structural engineering.

Before enquiring, what kind of education an engineer should have, let us glance at the state of the profession before the founding of the institution of civil engineers.

We find that engineering has been practised from the earliest times, and, as Herbert Spencer has pointed out, the members of the clerical profession were first skilled in it; for at first we had only one educated class, the clerical. And so we find that the priests of Egypt led the way, followed in later times by the Roman Pontifex, the chief of the priests and the bridge-builder, and then in the middle ages came the builders of the great cathedrals.

In Egypt we find some notable examples of engineering work, principally in hydraulics. About 1385 B.C. Lake Mæris was completed. This lake is said to have been 450 miles in circumference and to have attained a maximum depth of 300 feet. The object in excavating it was to regulate the flow of the Nile, which previously had caused much damage by its floods. For six months in the year the Nile flowed by a great canal into the lake and then for the remainder of the year at low-water Lake Mœris flowed into the Nile. The canal, which was thus one of the earliest works in the regulation of rivers and irrigation, may still The Pyramids, whether be seen. merely tombs or astronomical observatories, as the late Mr. Proctor so

Egyptians in transporting material and in masonry construction. The largest of these puzzling structures contains about 82,000,000 cubic feet of masonry and weighs over 6,000,000 tons.

In Egypt we also find a fine example of municipal engineering belonging, however, to a much later date than the works just mentioned. Alexander the Great employed Dinocrates as engineer to lay out the city of Alex-This city, with its population of 600,000, had all the advantages of its splendid situation, and Dinocrates also constructed important harbour works. The streets of the city were laid out at right angles to each other and there was an admirable water supply. Each dwelling had a reservoir supplied with Nile water, and these reservoirs and their supply pipes being lined with cement may be seen in many places at the present day.

Cirina, that country of which we know so little, can show many engineering works of great antiquity. have all heard of the Great Wall, begun by Che-Hwang te in 214 B.C., and the Grand Canal in the north-east over 700 miles long. In China also is the Sangan bridge, the longest in the world, 5½ miles long and having 300 piers. This bridge may certainly be called a permanent structure, as it has been in existence over 800 years. In the mechanical branches of engineering also China was early at work. Printing was invented in 593, and was thus known 900 years before the time of Caxton.

But ancient engineering was at its zenith during the Roman Empire. Begun in the earlier years of the Republic the public works were ever increasing in magnitude; and, if they had only been required to withstand the effects of time only, we should have many more examples of beautiful masonry construction. As it is, however, we can see how thoroughly

monuments of the great skill of the bridge building and masonry of all kinds, hydraulic engineering, roadmaking, sanitary engineering, surveying. The permanency of their work is shown by the proposal to utilize some of the piers of Trajan's Bridge over the Danube in a new bridge to be built at the same place. This bridge was built 120 A.D. and consisted of 20 semi-circular arches, the span of each being 180 feet. dome of the Pantheon, 142 feet in diameter, now nearly 2,000 years old, is often cited as an instance of the suitability of concrete for such structures. The Colliseum, covering an area of over 6 acres and capable of seating 70,000 persons, shows the greatest skill in the design of every detail with elaborate water supply and sanitary arrangements. It would take too much time to describe the numerous magnificent bridges constructed the Roman engineers. waterworks with aqueducts, settlingponds, filter beds, flow-off chambers, and leaden service pipes, and their splendid public roads are examples worthy of careful study even now by all who have similar works to carry out. The great sewers and their connections are amongst the earliest sanitary works still in existence. But the most remarkable works are the two tunnels which drain the Alban Lake and Lake Fucino respectively, and one of which belongs to the earlier period. As all readers of Roman history will remember when, about 398 B.C., the Romans were beseiging Veia, the waters of the Alban Lake rose so high as to be a source of danger to Rome. After consulting Apollo through his Delphian Oracle the Romans learned that Veia would be taken if the waters of the lake were drawn off to the sea. Accordingly they set to work and within a year a tunnel was driven. This tunnel, 6,000 feet long, penetrated a mountain composed of the skilled the Roman engineers were in hardest lava. To expedite the work

shafts were sunk in many places along, the line so that the work could be pushed forward at several places at the same time, just as in modern The height at which the tunnelling. water stood above the lake entrance must have been a serious difficulty. The construction of this so called emissarium displays a high standard of knowledge of the theory and practice of surveying and levelling as well as great skill in hydraulic engineering. The Fucino tunnel belonging to the later period was completed after ten years' work in 52 A.D.

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After the fall of the Roman Empire we find for a long time very little done Between 1370 and in engineering. 1377, however, Barnabo Visconti constructed the magnificent Ponte di Trezzo over the Adda, having a span of 237 reet; this is the greatest arch ever built, Cabin Joln. Bridge, Washington, span 220 feet, being next in No other important works were carried out except some of the great cathedrals by the clergy and some bridges by the Freemasons.

Toward the close of the seventeenth century engineering revived, and Hydraulic Ergineering was energetically practised in reclaiming the flooded lands of Northern Italy; Galileo, Torricelli, and other famous philosophers and mathematicians assisted in devel oping the theory of hydraulics. At the same time in France Hydraulic Engineering was also studied, and Belidor great success and has only recently wrote his "Architecture Hydraulique," first text-books of Modern Engineering —Engineering which combines theory and practice. A copy of Belidor's famous work dated 1790 may be seen and Highways, which body had charge verses. After successful work in Lonalso of the education of all those wish-

was born the first great French engineer, Perronet. Thirteen remarkable bridges were built according to his designs, some of which have probably never been surpassed in elegance of design, and they are the first examples of level bridges. Perronet was also the inventor of many mechanical contrivances, amongst which was a saw for cutting off the heads of piles under water.

In England the first piece of satisfactory work was carried out by Sir Hugh Myddleton, a goldsmith, who, in 1610, commenced the work of leading the New River to London. This work he successfully completed, and the New River still forms part of London's water supply. However, there was no engineering profession in England for many years, and, when it was determined to build a lighthouse on the Eddystone Reef, disastrous results followed on two occasions from employing men who had no training nor skill in the matter. Then, in 1756, Smeaton was chosen, and, as it turned out, the choice was a wise one. in 1724, Smeaton had received a good education at Leeds Grammar School, and was then apprenticed to a philosophical instrument maker. a deep interest in engineering works, read many papers before the Royal Society, and in 1754 made a tour of the low countries to inspect the canals. His lighthouse, as we know, was a been taken down to be replaced by a which may be considered as one of the higher one. In 1757 Telford, the first President of the Institution of Civil Engineers, was born. The son of an Eskdale shepherd, at fifteen years of age, he was apprenticed to a stonein the University library. Following mason, and ye found time to study Belidor's suggestion in 1720 was Latin, French, German, and English established the Institute of Bridges literature, and even to compose some of all engineering work in France and don, he completed his first highway bridge in 1792, and was appointed ing to become engineers. In 1708 Chief Engineer to the Ellesmere Canal

canals being constructed at that time in England. The King of Sweden consulted him on the construction of the Gotha Canal, and Telford superintended the work on it. Telford's same, however, rests on his magnificent roads. He built 920 miles of roads in the Highlands of Scotland and also a system of roads through the Welsh Mountains, which included the beautiful Menai Suspension Bridge. His continental work also included the road from Brest to Warsaw, constructed for the Austrian Government.

Mention has been made of the revolution caused in the profession of engineering by the introduction steam, and we must now take a glance at Watt and his many discoveries in steam engineering.

In 1757 Watt, then only twentyone years old, was established in the University of Glasgow as scientific instrument maker. With Black, the Professor of Chemistry, and famous as the discoverer of latent heat, he often discussed the possibility of improving the steam engine as it then existed. Newcomen's engine, the forerunner of Watt's, was merely used as a pumping successful, and in many of their great engine. In this engine the top of the works practice which then was worthy cylinder was uncovered, the steam was of praise would now be rather worthy admitted below the piston only, and of blame. In a recent lecture delivwas condensed in the cylinder by a ered by Dr. Anderson he said that, jet of cold water, After nine years of "having seen the great advantages that thought and study on the nature of have accrued from the employment of steam. Watt at last conceived the idea men of the highest scientific culture in of the condenser, and this with many carrying out the engineering works in other improvements, such as packing continental Europe and in the United for the piston, cover and stuffing-box States of America, we must recognize for cylinder, admitting steam to both the fact that the days are past when an sides of the piston, and the steam engineer can acquit himself respectably jacket he patented in 1769. Other inventions of Watt with regard to the certain constructive instincts which steam engine are methods for converting the reciprocating motion to a engineers and manufacturers down to motion of rotation, expansive working, quite recent times." parallel motion for the piston rod, is one who is guided by his own exthrottle valve, centrifugal governor, perience, and so is one who in narrow and indicator. In fact, the only im limits is not likely to make serious

and afterwards to all the principal portant changes since Watt's time are three, namely: (1) The great beam has been abandoned; (2) adoption of high pressure; (3) compound expan-In 1780 Watt took out a patent sion. for a simple process now used over the whole civilized world—the method of copying letters by using damp paper and slightly glutinous ink.

> The inventions of Watt thus paved the way for George Stevenson and the first steam railroad in 1825, and with the railroad the present era of en-

gineering began.

Though engineering is an eminently practical profession, still it differs in a marked way from the other scientific profession, that of medicine, in depending most closely on mathematics and mathematical physics, and we shall see that a thorough theoretical knowledge is absolutely necessary for its successful practice. An engineer must be a scientist as well as a practical man, and, although in the foregoing sketch we find names of men who have attained to great eminence as engineers without having had a sound theoretical training, still it was owing to great natural ability that they were so by the aid of mother wit alone, or of have been almost the only guide of A practical man mistakes, but he always needs a prece- abstract principles to a great work by dent, and, if he departs from the beaten track, must do so tentatively. It is true that the enormous tubular bridge across the Menai Straits was constructed by the successful practical engineer, Robert Stephenson, but it was the result of many experiments, and, till completed, its builder was uncertain whether it would carry the necessary load or not, a proof of which remains to this day in the grooves left in the masonry for supporting chains if they should have been needed. this bridge and its successors, the Conway and Victoria tubular bridges. though worthy monuments of Stephenson's skill and success as an early engineer, would be looked on as faulty and wasteful practice if executed now. And this is due entirely to the fact that at that time theory and practice were l kept apart. The celebrated Navier had some time before lectured on the methods of determining stresses in such structures, but the practical men at that time in England had not the opportunities to learn the principles which would have enabled them to proportion the various parts of their bridges to the stresses which they had But theory and practice were soon to be firmly joined together, and we find that a small girder only seventy feet span, on the Great Northern Railway of Ireland over the River Cusher, was the first iron lattice girder in which all the parts were properly proportioned to bear the stresses which came on them. This bridge, designed by Sarton, was immediately followed by he magnificent Boyne viaduct, whose central span is 267 feet, and which "must ever rank as a signal illustration of the successful application of

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men who were capable, not only of appreciating them, but of following their guidance in a practical manner."

It might at first sight seem that, owing to the many branches of engineering, it would be well to have special schools for each branch, and that a student having determined which branch he intended to follow should devote all his energies to that Such, however, is not found expedient. Over specialization is bad. A man thoroughly equipped as a railroad engineer might find himself hopelessly crippled at some time for want of some knowledge of electrical engineering; and, in fact, we find in many cases successful engineers have attained their success in other branches of the profession than that in which they had started.

A man in these days to attain even ordinary success must be well equipped when he enters on the practice of his profession, otherwise he will have many years of hard work, and he will always look with regret on the time wasted in his earlier years. The successful engineer is one who combines the highest scientific knowledge with wide experience. This scientific knowledge can only be obtained in special schools, and it is the duty of the State to see that such schools are maintained in an efficient condition. It is true that such men as Smeaton, Watt, Brindley and the Stephensons were successful, and yet had not opportunities of attending Technical colleges, but the average student might well hesitate to compare his natural ability to theirs, and they were all hard students, and made use of all the opportunities of study they met.

(To be continued)

THE GROWTH OF P.E. ISLAND EDUCATIONALLY.

By Inspector G. J. McCormac.

OR two long centuries after its discovery, from 1479 to 1700, Prince Edward Island lay untenanted except by the aboriginal Indians and a stray European who may have acquired their language, or cultivated their frendship. It is, however, from the year 1715, or two years after the Treaty of Utrecht, that the Island may be regarded as a settled country. The first to settle in the colony were Acadians, and these subsisted by fishing and Progress was slow, for in ground. 1728 there were only sixty families oa the Island; and in 1745, or thirty years after the settlement began, they did not exceed 150 families, or about 800 souls. A French officer who visited the Island in 1752 reckoned the whole population to be 1,354. The expulsion of the Acadians from Nova Scotia in 1355 tended greatly to increase the population of the Island, as many of the fugitives settled here. On the surrender of Prince Edward Island to the British three years later the number of inhabitants was over 6,000. Shortly after this a paric seemed to have seized the inhabitants; they dreaded a forcible expulsion like their brethren in Acadia; cultivation was abandoned, and many of the people went to the mainland as a place of greater safety. When William Patterson arrived in 1770 as the first Governor of Prince Edward Island as a separate province there were not more than 150 families. At the beginning of the present century the population was about 5,000. In Charlottetown there were only fifty families, or between 250 and 300 persons. It will be remarked that up to 1800, A.D. the population of the Island was very gious test was to be permitted.

migratory. Consequently very little progress was made, and education received very little attention. In August. 1767, the Island was divided into townships or lots and granted to individuals having claims upon the British Government. Each township was to furnish a glebe lot of 100 acres for a clergyman and a lot of thirty acres for a schoolmaster. No schoolmaster. coming from England, was permitted to teach without a license from the the cultivation of small patches of Bishop of London; and it was assumed in his instructions that all Christians. save those connected with the Church of England, were heterodox. denominations were, indeed, tolerated, but, in conformity to the bigoted British policy of the times, Roman Catholics were not permitted to settle on the Island. In 1834 the Legislature petitioned the King to allow that body to appropriate to the support of education the clergy reserves and the school lands, as it was impossible to dispose of them according to the original intention. In the following year an Act was passed by the Legislature authorizing the sale of the lands and appropriating the monies arising from the sales for the purpose of promoting general education within the Island. In 1821 education began to receive some of the attention it deserved, and in that year an institution called the 1 National School was opened in Charlottetown. In 1820 the Legislature passed a Bill for the establishment of a classical academy in Charlottetown, to be designated the "Central Academy," vesting the management in a patron and nine trustees. Two teachers were to be employed, each to receive a salary of f_{150} a year, and no reliunsteady, and to a great degree was January, 1836, the Academy was

opened, the Rev. Charles Lloyd and I will now quote some paragraphs Mr. Alex Brown being the first teachers. from this report: Mr. Lloyd soon retired, owing to illthe employment of an additional sums of money have been appropriated educational institution.

authorized the appointment of a Board is extremely defective and consequently Shortly after the pass- attending them. three months. ing of this Act the appointments were made. According to the provisions of several causes, some of these perhaps being composed of the members of inhabitants are poor, and, having to the Executive Council, the Principal of Prince of Wales College and Normal School and the Chief Superintendent of Education for the Province. The Provincial Teachers' Association are endeavoring to secure direct representation on the Board. Such representation would facilitate a frequent interchange of views upon matters which the teachers as a body might desire to bring under the notice of the Executive, and would bring the members of the Government into more direct contact with the teaching force.

In 1837 the first official Inspector of Schools for the provincewas appointed in the person of Mr. John McNeill, formerly Chief Clerk of the House of Assembly. He held the situation of Inspector for ten years, during which time he effected much improvement. In 1837 there were 52 schools and 1,640 scholars. When Mr. McNeill vacated the position in 1847 there were about 125 schools and over 5,000 scholars. His first report was published in October, 1837, and gave a graphic description of the educational conditions of the country at that time.

"Though various laws have been health, and was succeeded by Rev. enacted from time to time by the James Waddell, of Truro, Nova Sco- Legislature of this Island for the regu-In 1843 provision was made for lation of schools, and considerable The Academy henceforth for their encouragement, I regret to was conducted with great vigor and have it to state from recent personal success and grew into a very valuable observations that the system of instruction pursued in many of the-An Act of the Parliament of 1830 country schools throughout the Island of Education of five persons. The but little really useful and substantial Board was required to meet every knowledge is acquired by the children

"This appears to me to arise from our present School Act the Board of unavoidable in a new country like Education consists of nine members, this. In many of the settlements the struggle with numerous difficulties in procuring the means of subsistence for their families, the education of their children is with them a matter of mere secondary consideration. And even when they do turn their attention to this important object they are not (generally speaking) very scrupulous in the selection of their teachers, satisfying themselves with the common idea that it is better to have any teacher than none at all.

> "The little encouragement which is in most cases held out to teachers of character and qualifications and the precarious manner in which salaries are paid operate most powerfully as a ba, in the way of the advancement of education. Hence it too frequently happens that it is only persons of shipwrecked character and blasted prospects in life, after every other resource has failed them, who. take up the important office of schoolmaster; and hence also the frequent changing of the teacher; the long lapse of time that takes place after the expiration of the engagement of the old before a new one is appointed; in

nearly forget what they had previously

acquired.

"The migratory character of the Kings County. schools, or the shifting of them from place to place, has, in my opinion, another injurious effect upon the progress of education. From this cause career is stopped all at once by the removal of the school to another part of the district, where the population has recently became more dense, and then the former locality is completely deseried, the settlers immediately around it being unable, without the co-opera tion of their more distant neighbors, to secure the continuance of the school.

"I must also mention another practice which is too prevalent in the country, and which I conceive to be exceedingly injurious to the respectability of the teacher in the eyes of the pupil, and consequently hurtful to his usefulness—that is receiving his board by going from house to house; in which case he is regarded, both by parents and children, as little better than a common menial; and from the familiarity which must necessarily subsist between himself and the family he cannot exercise that authority over his pupils which is indispensably necessary for a teacher to maintain.

"At East Point (Kings County) is a school taught by a competent teacher, John Slattery, in which I met with the only Latin scholars taught in any

school on the Is and."

At this period the schools were supported by voluntary contributions, aided by partial assessments and Legislative grants.

In 1833 there was 74 schools and 2,176 scholars. In 1841 the schoolnumbered 121 and the scholars 4 356 By the report of 1851 the number of schools had increased to 135 with a total enrolment of 5,366. At this time there were three school inspectors, one

consequence of which the children | for each county, viz.: John McNeill for Queen's County, John Arbuckle for Prince County, and John Ross for

In October, 1853, John M. Starke "as appointed visitor of schools for the whole Island. He was a graduate of Stowe's Normal School, Glasgow, it happens that after the children have Scotland. In 1856 there were in operamade considerable proficiency their tion 268 schools, attended by 11,000 So the number of both scholars. schools and scholars had almost doubled during the six years, 1850-1856.

> Governor Bonnerman, in opening the session of 1852, stated that he had much pleasure in visiting many parts of the Island, but that he observed with regret the educational deficiency

which still existed.

An Act for the encouragement of education and to raise funds for that purpose, by imposing an additional assessment on land, was passed. Act was called the Free Education Act and formed the basis of the present educational system of the province, which has conferred such a great blessing on the country.

On October 1st, 1856, a Normal School for the training of candidates for the teaching profession was opened at Charlottetown by Governor Daby in presence of a large assemblage. Several interesting addresses were delivered. Inspector Starke's remarks in reference to moral instruction in schools gave rise to a great agitation on the propriety of Biblical instruction in the schools, and resulted in his early resignation of the office of Inspector of Schools. The Bible question was brought before the Legisla-

ture during the sessions of 1857 and 1858 by numerously signed petitions using that the use of the Biole in all the Public Schools be authorized by law. The prayer of the petitioners was rejected by the House of Assembly on both occasions.

During the session of 1860 several

Acts were passed relating to education. treasury allowance, so that according One provided for an additional teacher to the new law every school district in the Normal School; another de that would not raise at least fifteen clared the introduction of the Bible pounds for the teacher was to get no into the Public Schools to be legally aid for its school from the treasury. authorized, while another provided for But this arrangement proved unpoputhe establishment of the Prince of lar and had to be abandoned in 1867 Wales College. In 1879 the College was amalgamated with the Provincial Normal School. All the Public School teachers receive their education here The curriculum includes Latin, Greek, French, English Language and Literature, Mathematics, Physics, Chemistry, Agriculture and Agricultural Chem istry, Natural History, Ancient and Modern History, Bookkeeping and the principles and practices of teaching. This institution has an excellent staff of teachers under the principalship of Alex. Anderson, LL.D., a thorough disciplinarian and a teacher of much A new college building is being erected and will be completed next fall (1899). Last session there were 233 students attending old Prince of Wates College.

On December 13th, 1859, there died a man who always took a deep interest in promoting education, the Right Rev. B. D. McDonald. established many district schools, also a convent where young ladies receive a superior education. In 1855 he opened St. Dunstan's College, now one of our leading educational institutions, and the only one in the provin e which confers degrees. It is affi iated with Laval University.

In 1863 some changes were made in the Education Act, the reduction of the teachers' pay from the treasury by £,15 and the introduction of the Grammar Schools. The fitteen pounds deducted from the teachers' treasury allowance was required, by the amended Act, to be made up by each school district, and the amount had to be guaranteed by the school trustees to the teacher in a written agreement in hour late is so little interested in the

and the whole of the teachers' salary made payable from the Provincial treasury.

In 1877 a new School Law was passed which dealt successfully with delicate and difficult problem of our school question. This law is now admitted by all classes and creeds to be well adapted to the wants of a mixed community like ours. The success of the new School Law is very clearly shown by the fact that within the first eighteen months of its operation the attendance of pupils at the Public Schools increased by over five thousand. West Kent Street School. Cha·lottetown, the Summerside, Georgetown, and other important schoolhouses w re erected about this time.

The following extract from Superintendent Manning's report for 1878 shows that at the advent of our present school system there was vast room for improvement in the teaching protession: "Foremost among the hindrances to the progress of education on this Island is the large number of tarmer-teachers employed and the irregularity of attendance; and when, as is often the case, these occur in the same district, the result is disastrous to the school. A moderate amount of muscular exertion should operate only to improve a teacher's efficiency, but it can be easily seen that the service suffers in the case of one farming on such a scale as to require a \$160 mowing machine, while his school is gra led second rank by the County Inspector. Another dragging his weary umbs into the schoolroom half an order to enable him to receive his studies of ten or twelve youngsters

Trustees have more than once descibed these farmer-teachers as 'just going into school to rest themselves.' This is a matter which only the people can remedy by refusing to employ this unprofitable class of schoolmasters."

In 1880 was introduced a system of plassification of Graded Schools based in merit alone. Up to this year firstclass schools were established by a vote of the Board of Education and retained their rank without any regard to efficiency. They are now raised to that rank whenever they reach the standard fixed by the Chief Superin tendent of Education. This step has made these schools centres of educational activity. Those of them that ceased to be such were dropped from the list of first-class schools and assigned an inferior rank until by merit they again won the position lost.

The Provincial Teachers' Association was instituted in 1880. It was incorporated by Act of Parliament in 1896. This Association is in a very progressive and prosperous condition.

It meets once a year.

1881 a general "Course of Studies" for the grading of the Public Schools was adopted. In the same year a general system of entrance examinations to the Prince of Wales College and Normal School was established. These examinations are under the control and direction of the Chief Superintendent of Education.

In the following year several important amendments were made to the Public Schools' Act which greatly in-

that he soon drops off in a doze! creased its efficiency. In 1883 the study of Agricultural Chemistry was introduced into the schools of the Island. and two years later an Arbor Day was established for the schools.

In 1361 a census was taken and the schoolhouses were found to number 302, the teachers 280. In 1870 the total number of schools was 372 and scholars 15,000. In 1874 the number of schools was 403, of scholars 18,233. The salaries of teachers then ranged from \$113.56 to \$324.44 In 1878 there were 465 schools, 413 teachers and 19,240 scholars. In 1881 there were 486 schools, 463 teachers and 21,601 pupils. In 1887 there were 437 schools, 505 teachers employed. and 22,460 pupils. To-day we have 467 schools, employing 579 teachers and having an enrolment of 21.845 pupils. The salaries paid teachers range from \$130 to \$783.

Our schools to day are in a healthy and flourishing condition; they are no longer held down by brute force or taught incompetently or irrationally. The teachers of this province are alert and active as a body and do their duties faithfully. The C.P.R. express is no farther ahead of the lumbering stage coach than the P.E.I. school of to-day is ahead of the school of twenty years ago. The moral, social, intellectual, and industrial circumstances of the people have all changed. The old log schoolhouse is a thing of the past, and our school buildings, with very few exceptions, are very comfortable, well

furnished, and well lighted.

to seek elegance rather than luxury, and refinement rather than fashion; to be worthy, not respectable, and wealthy, not rich; to study hard, think grow up through the common. quickly, talk gently, act frankly; to is to be my symphony. listen to stars and birds, babes and

To live content with small means; sages, with open heart; to bear all cheerfully, do all bravely, await occasions, hurry never; in a word, to let the spiritual, unbidden and unconscious,

CONCERNING GIRLS.

Manners Versus Learning.

In the last century, education was lady friends whose beautiful, attractive looked at from a standpoint very different from what it is now. Ignorance was not considered a disgrace, and to be uncertain in his spelling was no bar to being a gentleman. In the education of the girls especially, books seem to have borne a very small part, Dean Swift declaring, in his usual dogmatic way, that "not one gentleman's daughter in a thousand can read or understand her own natural tongue." Certainly in his generation, needlework and deportment were the chief things taught them. Dignity of manners was judged to be of more importance than book-learning; but as women are more adaptable than men, more capable of catching the prevailing tone of thought, they could hold their own in society in spite of their ignorance, as long as they were finely mannered and not hoydenish. Grace of carriage, therefore, good breeding to make home peaceful and pleasant, piety to rule her private conduct, formed the ideal of perfection in woman. Thoroughness or exactness of knowledge was not thought compatible with these good qualities, and learned ladies were dreaded accordingly. The Spectator tells that "a lady at court having accidentally made use of a hard word in a proper place and pronounced it right, the whole assembly was out of countenance for her"; showing how a woman who knew more than others of ther sex was regarded, if she "had dared to read and dared to say she read." Dancing, being the only physical exercise then allowed to girls, was much prized, both as a healthful exertion and a training in elegance period were nearly all in very stately Most of us middle-aged people must still remember a few old this part of her education incomplete

presence and gracious manner were * once the dread and admiration of ou childhood.

In the present day, things are much changed. The girl's education is as thorough as the boy's. No smattering of knowledge now contents us for them, but examinations as stiff and exhaustive are given to them as to their brothers, and with as good Along with this high mental results. discipline, the physical training goes hand in hand; so that with boating, swimming, calisthenics, cricket, lawntennis, the physique of this and future generations should go on improving at The idea that a beautiful a rapid rate. girl must be pale and delicate-looking, and that, to be interesting, she must be ready to faint at the least exertion or motion, like the heroines in the old novels, is now quite exploded.

But, in gaining all this mental and physical excellence, care must be taken that we are not losing the well-bred courtesy that used to sit so gracefully on our grandmothers, or the loss will be greater than the gain. In avoiding the ignorance of the past, there is the danger of going to the other extreme, of making learning of too much importance, or rather of making it allimportant, forgetting that for the proper application of it other faculties are required; that a girl crammed with knowledge is only like a bookcase full of books, unless she has the power to use it for good and to give pleasure to herself and others. And what will give her this power? Only a proper training in which good manners or good breeding, as the essayists of the and grace; and the dances of the last century were fond of calling it, holds its proper place; and a greater injustice is done to a girl in leaving

be exact and precise. It is only in woman of high culture and noble childhood that this can really be aspiration, yet of loving womanly acquired, that the easy, courteous sweetness. It as often happens that demeanor can grow to be second such a one can uplift a husband to the be deprecated, is formed.

The discipline to be undergone for this part of her education is also a to raise women more and more to an great gain to the child, as great almost intellectual equality with man, and as the result, keeping in proper check, as it does, many propensities fostered by the emulation in the schools, and ventions of the world are against their strengthening very opposite qualities. The one training places self in the of society have been formed for the foremost place, fosters self-will, want of reverence, boldness, independence of character; all of which may not be evil qualities, but would be greatly improved by being controlled by the courtesy and graciousness of manner, which, while perfectly self possessed, is thoughtful for others, full of deference for the old, and purely womanly in There is no true reason why an advance in learning should mean a decay in manners; the opposite ought to be the case; a true enlightenment ought to mean culture, and culturerefinement both in thought and observance.

Woman in the past ha been the hough other paths in life may now be opening to her, making marriage not so imperative, yet her real place and chief purpose is to be his alter ego and helppowerful of the great forces that affect calming, soothing, elevating and stimulating. While aiding men to do their duty, it makes them content in doing it, and keeps alive in them the love of social intercourse. To have this sex. influence in the future, as she has had

than if her book-learning should not of the olden time to rake her a nature; and it is then also that the dign ty of her own character, as that a brusque boyish manner, so much to husband can uplift a wife to his own rank.

The tendency of the times has been with this growth the sentiment has risen in their minds that the concomplete development; that the rules comfort of the man without regard to the good of the woman; thus generating in many a feeling of rebellion against à few of those existing customs. As woman's ambition has been roused by her new position, and her faculties awakened, a number of the sisterhood have protested against the old time notion that she ought to steal through life unheard and unremarked—that it is a reproach for her to be talked of: and these, rusning to the other extreme. have been led to court notoriety, to despise conventionalities and to adopt a hostile manner towards the other sex. while assuming a brusque demeanor that is not at all pleasing or attrachelper and consoler of man, and tive. As some writers have striven to set class against class, others lately have been trying to array sex against Nothing could be more absurd. However close the relation between Woman's influence is the most sisters, between mother and daughter, or between any two women, it can men. It pervades everything. It is never be so strong as between husband and wife; and the tie between father and daughter, mother and son, or brother and sister, is usually the more binding because of the difference of

Educating the one sex, without any in the past, woman needs all the consideration of a probable affinity to intellectual improvement she is at pres- the other, is therefore not advisable, ent gaining; but added to it she still less the setting of them up in requires the grace and good breeding opposition. But, as time goes on, the she means to fight the battle of life by \ \ \ \text{--Chambers' Journal.}

antagonism on the man's part towards his side, or as his rival. Her cultilearned ladies, as well as the bitterness vated, bright intelligence will have to on the woman's side for her treatment be put forth, not to lift her up above in the past, is dying out. It is in the her every day employments, but to woman's power to decide if her king throw a grace over her common acts, dom is still to exist—if man is to be and to make her a centre of holy after all under her sway, as of old—if influences and innocent cheerfulness.

THE ENGLISH ALPHABET AS IT OUGHT TO BE TAUGHT.

By Inspector J. Coyle Brown, Peterboro, Ont.

Symbol	N ame.	Keyword to Name.	Symbol	Name	Keyword to Name.
abecdef gobiijki mnopgrstu	a be ke see de e f ge ji he i ja ka el en o pe ku ar es t u	aim being kedron cedar deist eat effort geese genius hero ice Jacob Kali elbow emmet enter open period curious arrow essay tea -use	v w x y z co au aw coi ch pqu th th wh ck gh ngh	ve woo ex yi ze oo au aw ou ooi ooy che kwe she the kwe ek af eng etch	theme these wheel beck laugh length

THEORETIC OBJECTIONS AND REMARKS.

1. No names indicative of their sounds are given to the single vowels, a, e, i, o, u, when they are short. It is contrary to the genius of the English language to use the short sounds of niost of these in a detached way, and on the whole no advantage is gained by attempting it.

2. C, g and th have each two names. There is no way of overcoming this, without changing the form of the characters, and this is not desir-

3. Au and an have the same name;

so have ou and ow; so, also, have or This occasions no difficulty either in pronouncing words or in oralspelling.

What can't be cured must be endured.

4. Ch (che) and tch (etch) have the same function; so have f(el), gh(al)and ph (fe); so, also, have c (ke), k(ka), q (ku) and ck (ek). This is a drawback in teaching, but not a great one. It cannot be avoided without changing the appearance of the written. and printed page.

5. Many of the symbols have irregular uses; for example, oo is sometimes short, as in foot; sometimes likeo long, as in door: and sometimes like u short, as in flood; sh (che) is often like c (ke), as in chasm; and ometimes like sh (she) as in chaise. When the regular uses of the symbols are thoroughly established in the mind of the learner, the irregularities are mastered with comparative ease.

The names are better to learn with than the attempted phones. They can be more rapidly applied. They can be given with any required degree of audibility, they never have to be changed, being adapted to the needs of the cultured literary man as well as to those of the little child. They distinguish between ch, tch, f, gh, ph, c, k, q and ck, which the phones cannot do.

(Ch, ich, f, gh, ph, c, k, q and ck.)

ADVANTAGE OF PROPOSED CHANGE.

It will lessen the time of learning to read by one-half.

It will lessen the teacher's labor by more than one-half.

It will enable many subjects to be clearned that hitherto had to be taught.

It will enable a foreigner to acquire world.

a knowledge of the language in a much shorter time.

It will do much to make learners acquainted with the regularities and irregularities of the language, and thus lead to many absurdities in speiling being dropped.

It will do more than any other pedagogic movement to make the English language the language of the

De Massa to de shepa'd say: "Go call de sheep dat's gone astray. De night is col', I hear de win' A. shakin' gin my winder blin';
Dar's some po' sheep dat's gone astray.
Go call 'em in, Cu-dey! Cu-dey!
Cu-dey! Cu-dey! Cu-dey!"

An' all night long de win' an' rains, An' hail against de winder panes, In dreams I hyar de massa call De wanderin' sheep, he knows 'em all.
He pints de road, an' shows de way
An' ever stan's an' calls, "Cu-dey!
Cu-dey! Cu-dey! Cu-dey! Cu-dey!
Cu-dey! Cu-dey! Cu-dey! Cu-dey!

EDITORIAL NOTES.

Deliver not the tasks of might To weakness, neither hide the ray From those, not blind, who wait for day, Tho' sitting girt with doubtful light.

"That from Discussion's lips may fall With Life, that working strongly, binds-Set in all lights by many minds, So close the interests of all."

the High Schools and Collegiate Institutes is fixed by law at the upper limit of the Fourth Book class in the Public School. After passing this fixed standard of work, if the pupil still continues in the Public School, should fees be charged? Fifth Book classes are supposed to be more advanced in school work than the standard for admission to a High School, in which class of schools fees are usually charged. Several reasons can be given for this change in the treatment of the school question: To lessen the burden of the tax-payer and to indicate that the High School is not a State necessity, while the Public School course is considered such. The great majority of the p pils in the Public Schools never reach the Fifth Book in their schools, at least to the end of

The standard for admission to class, although we think that all should accomplish the school work required in order to pass the standard for entrance to a High School. fact is otherwise, by far the greater number of scholars in the Public Schools never reach even the Fourth Book class.

> It is this part of the school programme, it seems to us, that the Public School authorities should seriously consider, viz, the part from the beginning of the school work to the end of what is required to complete the work prescribed for the Fourth Book classes. Trustees, teachers and inspectors should with utmost care and diligence devote their energies to the proper and efficient educating of all children

Fourth Book classes.

this point.

Still, however, the question remains. if the pupils do continue in school for school work in Fifth Book classes should fees be charged? Most people will say, we fancy, yes. And some will say no, until the pupil has passed the Public School Leaving Examination. No one wi'l advocate, however, that pupils who remain at the Public Schools till they pass the first part of the Junior Matriculation Examination should be taught at the expense of the public. Justice demand: that if this be done at the Public Schools it should also be done at the "niversity. If supplies are furnished for pupils who attain this standard at the Public Schools they should also be furnished for students at the University. young men and young women have to provide their own fees, and pay for writing paper, their books and who would be grateful if a generous though unwise public would pay their The Evangelical Churchman, which is expenses at College and University. The question now arises, will this be many. And we are glad to see the a good investment for the public taxpayer? In one case out of a thousand giving efficient help in this very imit might be. In the case of the nine portant discussion. We may, without hundred and ninety-nine, it would not offence, be allowed to name some be profitable for the public, nor advan- of those papers which have come tageous for the pupil. It is the teach under our notice: The Mail and Eming or experience that labor is profit- pire, The Montreal Gazette, The Monable for all things. There is a satisfactory way of dealing with this difficult and The Toronto Globe. question which we will not take time there are other payers, but those to discuss at present.

conclude that fees should be paid by this all-important question. The Bible those who are in the Fifth Book classes must be recognized in many ways in in the Public Schools. be small, say twenty-five cents a month. spirit of spirituality must be acknow-In the case of supplies being furnished ledged and pervade all our schools. the fee might be fifty cents a month. We fail to see why gratuitous school-

the programme of school work for to the High School, if they stay in a Nearly all their Public School, while the same pupils. scholars complete their school life at if they enter a High School, generally have to pay.

THE CANADA EDUCATIONAL MONTH-LY has day in day out advocated for the highest possible attainments in education. We rejoice in power and conspicucus ability. But we advocated earnestly and constantly to educate the character rather than the memory, and the heart rather than the intellect. Let the future generation know how to read and write, to manufacture and trade in the best possible way; but, let us feel more and more that people gain in self-knowledge. self-control, and self-respect. moral element in a people is the leading part. If we fail in neurishing this in the life of our people, our deduce is complete. We are exceedingly glad to see that the people are being called upon to reason on this vital question by the organs of the different churches. We print an extract this month from a sample of what is to be found in general press of the country is also treal Witness, The Quebec Chronicle, No doubt above mentioned have come to our For these and other reasons, we notice as giving special attention to The fee might our Public School programme; its

The country, state, or province that ing should be given to those who are claims superiority for its system of fit to pass the Entrance Examination education and yet neglects the sus-

its teachers is simply acting the part of an idle boaster or hypocrite. That the teacher makes the school is a principle, perhaps, not wide enough to include every element of school-work. but it is a fairly practical principle that may be adopted by a school board when selecting teachers, and an has the cause of education at heart. Nearly all of our Canadian provinces had it in view when they inaugurated a system of public instruction, with the exception, perhaps, of British Columbia, where there exists Normal School up to the present time. That there should be a Normal School in Victoria or Vancouver the people of British Columbia have no hesitation in saying when they join our educational gatherings to the eastward; and at one time the Hon. Colonel Baker, a former Minister of Education of that province, seemed to be on the eve of organizing such an institution. The institution, however, has not yet been organized, and possibly may not be organized until the passion of politics comes to take up the question, with partyism on both sides of the street. Many of the teachers and school inspectors of the great western province have had their learning in the other provinces of the Dominion, the Superintendent of Education, Dr. Pope himself, also hailing from the East. From his experience gained there he has been able to add to the improvements of the system he has been called upon to supervise, and we are assured that his sympathies are all founder of the first Normal School in in favor of "beginning at the right end" as soon as possible.

It would be absurd for us to advance reasons in favor of a Normal School training at this late date, even should

taining of efficient training schools for Government at present in charge of the affairs of his province, if not to all our local governments. And yet he may be surprised to learn that the training of teachers has not yet been introduced or developed as far as it should go in many countries that claim to-possess the "best educational system in the world." Only in one or two of excellent guide to the government that the Capadian provinces and in but few of the States has the Normal School training of the college graduate received the attention it ought to receive, and even yet the idea lingers amongst rs that a young man is fitted to teach if he has graduated at any of our universities. In Ontario the wellorganized School of Pedagogy established at Hamilton, and now under the able superintendency of Dr. McLellan, has removed the reproach from that Province that a Normal School training might with safety stop at the elementary school, An effort is also being made to establish a professorship of education in connection with McGill University, but beyond these movements little or nothing has been done to give the College graduate a special training to fit him to take charge of advanced classes in an Academy or High School. This fact, however, should not deter the people of British Columbia from making immediate provision for the maintenance of a well-equipped Normal School for the training of teachers for their schools.

Pestalozzi left this as a legacy to the world, that the teacher should be specially trained. David Storne, the the world, accepted the legacy as a challenge, and worked out the principle to a success in Glasgow. When Horace Mann began to improve the school system of Massachusetts, he soon found that the great defect in the any benighted Westerner wish to have system was not the indifference of the them repeated for the thousandth time parents or the communities, but the as an encouragement to the Local ignorance of the teachers and their and on this account became at once the great pleader in behalf of training schools for teachers.

Dr. Ryerson began his great life's work with the organizing of a Normal School, and so did Dr. Forrester, of Nova Scotia; and when Sir Louis Davies determined to improve the schools of his native Province, Prince Edward Island, by taking advantage of his premiership in passing the Education Act of 1877, he took pains to provide for the organization of a proper Normal School. New Brunswick and Nova Scotia have their Normal Schools, the one at Fredericton and the other at Truro. Ouebec has four Normal Schools; Ontario three, with another in process of building; Manitoba one, and the Canadian North-West one. Canada has, therefore, no reason to be ashamed of her enterprise in this direction, and, when opportunity arises, we may, later on, look into the organization of the above institutions, to see wherein they differ, and how far their work may be further assimilated.

In this connection we may say that glad to learn the Government of Prince Edward Island has completed arrangements for the construction of a new building for the Prince of Wales College and Nor-This has not been acmal School. complished without much discussion, lasting as it has for nearly twenty The Provincial Normal, School as organized under the Davies Administration in 1877, had a separate existence, with the departments of one of the city schools for practising hemlock; but the soul of things is just, schools, but in a few years, under a succeeding government, the spirit of Normal School, must come to see this economy brought about the amalgam-in time, and prefer to gain more and ation of the institution with the Prince more the reputation of a Socrates than of Wales College. lack of suitable accommodation for Hewton may also take assurance from

wretched methods of running a school; such amalgamation the movement was looked upon by many as a retrograde step, and the subsequent history of the training school has by no means discounted that opinion. The Hon. Mr. Farquharson has at last taken the matter in hand, and a new building will soon be opened under brighter opportunities for the training department, which, it is thought, will be reorganized in such a way as to provide the schools of the Province with a requisite number of properly trained teachers. If such a re-organization does take place there will be no need to further lament about the retrograde step taken in 1880, since the principle that the teacher makes the school will again have fair play in the tight little island Province in the east.

> The ethical problem we incidentally referred to last month in our notes of the late Montreal Cenvention is being further discussed as a "sore point" in the newspapers, and Major Hewton, of Richmond, one of the most zealous and outspoken of Quebec educationists, is again likely to find out what a task it is to convince an antagonist whose logic finds its present and only strength in the gainsaying of a majority. The man who thinks that a majority vote can always make a measure or motion right or wrong, or any line of conduct justifiable or unjustifiable, may be for the time a very dangerous antagonist, but he is none the less the wishy-washiest of logicians. Anytus and Meletus could circulate the rumor against Socrates that he was an atheist and everything that was bad, and get a majority of Athenian judges to condemn him to drink the and even Dr. Kneeland, of McGill Considering the of an Anytus and Meletus.

the fact that if the Anytuses and the monthly issue of our journal had Meletuses are after him their unpopularity-breeding phrases against a publicist of his standing must come to naught in the end. But for the temporarily unpopular man the world would have made but little advance, and though uncopularity may not be a paying game for the moment it is always a paying game in the end when honesty comes to be practised as the highest and best policy.

There is one phase of the discussions in connection with the above that we cannot but condemn, and that is the accusation, indirect as it may be claimed to be, that the reporter of the doings of the convention was anybody but the reporter himself duly accredited by the newspaper he represents. Dr. Kneeland's punishment at the hands of The St. John's News reporter is well deserved, and the fun it is likely to provoke whenever spoken of, may deter others from committing the offence—the gross impertinence we might say—of accusing any one of writing anything that appears in a public newspaper or periodical under the editor's authority. The impersonality of the press is one of the greatest literary safeguards of the times; and when a man, biassed by the wish, which is father to the thought, circulates the hurtful hint that so and so wrote such and-such an article, for which the editor or reporter is alone responsible, the intentions of the donor are made he is guilty of an indiscretion, and known. There is no doubt that the when his accusation comes to be put! in black and white, and is shown to be time one of the best equipped and false, nothing but an apology from the most efficient ladies' colleges on this offender should follow. We write thus side of the Atlantic, and we congratuemphatically on this subject, seeing late Montreal on the prospect. we have received communications containing impertinences of the above nature—accusations prominent educationists for writing ada to the extent it has into other editorials for us, which they could countries, and this is easily explained never possibly have seen unless after by the fact that our colleges have not

been printed.

The Royal Victoria College, Montreal, is expected to be opened soon, if arrangements can be completed for its organization during the visit of Lord Strathcona to Canada. building, which stands on the north side of Sherbrooke street, with the statue of the Queen in front, is one of the most spacious in the city, and has been erected solely at the charge of Lord Strathcona, the generous Chancellor of McGill University, who intends also to endow it before the governors of the university assume control. building will be exclusively set apart for the lady students of the Donalda Course, being supplied with suitable boarding apartments and teaching halls, with all the latest improvements connected with home and college life. What the new organization will be it is impossible to say at this early date, but in all likelihood the college will be placed in the hands of a Dean, who will have charge of the institution, subject to the corporation, as are the other faculties. A staff of professors will be appointed to assist the professors of the Faculty of Arts the various departments, but whether these new professors will be brought from Great Britain or be Canadian trained can only come up for serious consideration as soon as Royal Victoria is sure to become in

The correspondence system of tuiagainst certain tion has not found its way into Can-

opened their undergraduate courses to extra mural students, unless, as in the case of Queen's University, Kingston, only to a limited extent. The argument in favor of the system may be put, as Mr Jennings puts it in a communication to The Australian School-The mediæval system of master. giving oral instruction is still essential for the education of young children, but persons who have reached the sixth standard in the State schools, or the sub matriculation class in a private school, may enter on any pursuit by way of earning a livelihood, and, without neglecting the business of the moment, prepare for higher or more congenial pursuits, if more devoted to Minerva than to Mercury. Everything that could be said by way of explanation may be written; and written explanations have one very obvious advantage—they may be kept till they are fully and adequately mastered. A spoken explanation may be but half comprehended and soon forgotten; but litera scripta manet. In country places there are few amusements for winter evenings that are not injurious; the study of some subject, under expert guidance, gives perennial joy, and is a less expensive amusement than possibly any other.

A telegraphic despatch was lately sent from England to India in which it was stated that "Mr. Wren, the celebrated crammer," was dead, and a contemporary holds up his hands at the phraseology of the message, and exclaims—what a reputation to have -to be known to the world and handed down to posterity as "the celebrated crammer." What Canadian teacher, we may say on our own part, would care to have such a phrase written on his tombstone, even if it be only the idle spoken phrase of a newspaper reporter? That is only an idle spoken expression, one who knew Mr. Wren and his life-work declares, when what it is worth.

he says: "Knowing what we do of the character of the man, we can imagine his ghost chuckling, if not glorying, in a title which is an unbounded libel on his life-work. The men who went to Mr. Wren were already largely educated, and in most cases had the necessary information at their disposal. was Mr. Wren's function to teach them how to make the very best use of their information and brains, and because he succeeded to an extraordinary extent by his ability, his energy, his insight into character, by his ready grasp of the strong and weak points of his pupils, and by his system of competent teachers and small classes, he is to be everlastingly and opprobriously dubbed 'the celebrated crammer.' The fact is Mr. Wren was a born teacher, and was as far removed from the real crammer as the north pole is from the Undoubtedly there is such a south. thing as 'cramming.' The genuine article may be found in India, where its manufacture is fostered by a multiplicity of subjects and of examinations which in too many cases, alas! put a premium on the accumulation and the merely mnemonical knowledge of heavy, ill-digested facts. But it is an abuse of terms to apply the offensive word 'cramming' to a system, such as that practised by the late Mr. Wren, where thoroughness went hand in hand with rapidity, where principles were explained, no difficulties slurred, important points emphasized, and where the utmost application and concentration were demanded."

Where this thing is going to end we do not know, but we can hardly think that it will end with benefit to our schools or the children attending them. Perhaps there is no truth in the report, but if there be it will hardly pass without discussion, and the sooner the discussion begins the better it will be for our boys. We give the paragraph for what it is worth.

boys to visit Tampa, Florida, in February, 1800, when similar companies of boys from various states of the union will also be in Tampa. The railways have made special arrangements for the occasion so that the expense will be slight. Members of the board were of the opinion that it would be more patriotic to send the boys to the historical scenes of Quebec, or to Lundy's Lane, but on the whole it was thought that the Florida trip would do more towards fostering the friendliness between the United States and Canada, besides giving a desirable advertisement to Canada.

The reputed breakdown of the compulsory idea is a surprise to its numerous advocates in Canada, and, while the school authorities of the city of London, England, are considering pos sible remedies, those who favor the enforcing of compulsory attendance in our Canadian schools may be inclined to review their arguments in face of the facts as they are thus stated. Every time the London Elementary Schools are open there are absent #45,000 of the 754,000 children enrolled, or, roughly, one out of every five. Many of these children are kept away from school by sickness and other reasonable causes; but the statistics of attendance show that a very large proportion of the absentees are practically always away from school, and that their absence is wholly owing that, namely, of their great-grandto the indifference or cupidity of the fathers; in a word, we want to imbue parents. are constantly absent from school. menting. Now it is of little use to try They cannot be always suffering from to alter the set convictions of grown illness, and, as a matter of fact, they men. may be found any day playing about a groove from which even the stern the street corners or discharging the teachings of necessity will not make duties of what is called "a little place." them budge. But our hope lies with The parents are summoned from time the farmers' young sons and daughters.

The public school board has accept- to time before attendance committees. ed the invitation of Hon. W. D. Blox- and even before the magistrates; but ham, governor of Florida, to send a there is little practical improvement in drill company of fifty public school the attendance of the children, and the same parents are found neglecting their duty over and over again. In short, our compulsory laws are compulsory in name only. Parents ignore them and defy them.

> The possibility of making the Common School a place where children may be trained to run a farm or cook a meal is an idea which bothers our philanthropists every now and again, and brings them to the front as would-This time it is the be educationists. Countess of Warwick who says that there is a fateful tendency on the part of the sons and daughters of small farmers to gravitate towards the town, where wages are higher, where life is more varied, and the chance of competency greater than in the country. So year by year the rural districts lose a certain proportion of their youth, and it is always the best who go—the strongest, the "brainiest," and the most enterprising-while to the inferior stock is left the task of replenishing the nation's granaries. Thus the problem is: How to keep the clever ones on the farm, and give them and the others the necessary weapons for grappling with the problems of agricultural economy. We want to make the next generation of farmers' sons daughters a little more nearly abreast of the times; we want to enable them to look at their business from many points of view instead of from one-It is the same children who them with the spirit of wise experi-They have been moulded into

just as "keen" on the fitting education of country girls as on that of country boys, and this is purely a question of education.

The argument of the generoushearted countess is heard often enough in Canada these days, but only as coming from those who have never considered carefully what the true function of the Common School or Grammar School really is. The man or woman who wants agriculture and carpentering and shorthand and typewriting and cooking and bed-making taught in our schools has never distinguished between the school-training that becomes an abuse of the child's faculties and the training which leads to their fuller development. Pedagogy and the training for artizanship are two different things, and to mix them up directly would be to curtail the force in both that makes for race improvement. How did the Countess of Warwick ever find out that a certain class of boys were born to be ploughmen until the proper tests had been applied to them in legitimate schoolwork to prove that they were the "brainiest" of the boys of the parish? Would she really turn the Common School into a new providence that shall say what calling in life this boy shall take up and what duties the other will assume? Let her go to any of our "specialist" schools and see what the result has been, even when the effort has been made to emphasize the religious love of school-life by a rigidly frequent catechism training.

The following paragraph, taken from one of the leading educational periodicals of England, will show our readers how direct are the references in our contemporaries' columns to those whose desire it is to lead public opinion in the direction of their own misguided opinion. The Journal of Education writing for all other gifts.' We are not going to

I say daughters, because we must be a Canadian constituency, and were he to use such direct forms of speech towards any of our dignitaries, educational or otherwise, he would possibly have to run the gauntlet of misrepresentation, which Major Hewton, of Richmond, has lately been subjected to according to his own showing. The way of the reformer is hard, and the plain-speaking publicist has a thou-and and one frictional points to encounter, which his relevancy of judgment does not calculate on meeting. London friend has always a fearless way of facing the music when a sound educational doctrine is being played upon; and yet his paper commues to be the most respectable of our exchanges. This is a specimen of how he puts things: "The Bishop London is one of the most learned, and, without a doubt, the most versatile, Bishops on the Bench; and, if he does not adorn, he at least enlivens, everything he touches. Last month he addressed an assemblage of teachers at Sion College, and appeared in the new role of a teacher. The main doctrines he enforced were familiar to all teachers, however little they may be practised—the necessity of exciting the curiosity and cultivating the curiosity of a child—in brief, the fundamentals that every master of method insists upon from the very first. These doctrines had not been gained from any study of pedagogics, but by experience and plain mother wit. began, so he told his audience, as a teacher, absolutely ignorant of teaching, and all he had ever learned had been at the expense of those committed to his charge. The natural inference from these premises is surely: 'What a pity for my pup l, if not for myself, that I did not start at at the point where I have endea!' Not so, Dr. Creighton. He concludes therefore, that 'Teaching is really an Were the editor of incommunicable art. It is a gift, like reargue this stalest of all fallacies, of which seems to have a peculiar fasci-tory, the Bishop is entitled to his nation for the episcopal mind. But opinion. Can we, however, conceive we may venture to point out that, however gifted by nature, Dr. Creighton is not yet perfect in the art of drunk'? Maxime debetur pueris re-Whether history teaching should begin with the policeman or Board school teacher, though he may the Witenagemot is a moot point; and, never have heard the name of Iuvethough. in our opinion, favor weight of argument is in

with beginning ancient hisa trained teacher beginning his history lesson: 'Suppose your father was verentia is a lesson instilled into every the nal."

CURRENT EVENTS.

as the deplorable and unwished-for results of public examinations:

- (1) The examination charges the mental attitude of the student to the subject. His attention is drawn from the subject of study and fixed upon the examination. The constraint of an examination brings with it a dislike of the subject, and what one likes is dismissed from the mind as soon as the necessity for outward expression It is this distaste arising from compulsory examination that is responsible for the large amount of "learning by heart" from short and superficial works.
- (2) The examination gives to previous study a tendency to be superficial and directed to what lends itself to recitation. The knowledge that can can be "shown off" counts for the Formulas, definitions, rules, forms, facts and dates lend themselves external, that can be learned and recited, but not what one thinks or feels. It cannot be otherwise; examination questions are necessarily more tests of the memory than of judgment. effect is that an undue importance is attached to mere facts. It is undoubtedly a fact that the student who, by "cramming," has primed bimself with superficial knowledge and ex-

Dr. Paulsen points out the following | takes an examination with greater prospect of success than one who has read and studied with genuine interest the subject, and, perhaps, with far better results, to his own culture, but who has neglected the more recitable facts.

> (3) Examinations tend to produce uniformity and mediocrity. An examination that takes into account, not only the standing of the scholars, but is also designed as a test of the master and the school, has necessarily the effort of producing uniformity. Whilein the intellectual life uniformity and equality are far less important than originality and variety, examinations tend to produce a mediocre standard for all students in all subjects. every examination of a large number of persons, the clever ones find little opportunity for doing themselves justice; the questions must be chosen to suit the average candidate.

To sum up: State examinations tendto repetition; in short, all that is to suppress individuality, to destroy independence, to promote superficial knowledge and to stamp out all attempt at original thought. The superficiality which at present goes under the name of education, the glib readiness todiscuss all subjects, are undoubtedly the outcome of the technical public examinations. Examinations require knowledge that has no relation to the positions to be filled and do not take ternal facts, without much reflection, into account the special fitness of the

self-complacency.

mendation for their abolition. cannot return to the system of individual preference and patronage. superfluous examinations,

The following rules for the guidance of examiners are suggested by Professor F. Paulsen in his able contribution to Rein's Encyklopædishes Handbuch der Fædagogik:

(1) Lay stress upon the positive elements. The examination as such has the opposite tendency to bring out all deficiencies.

- (2) Begin with easy, simple and specific questions. An obscure question and answer easily upset the whole examination.
- (3) Treat mistakes and misconceptions after the advice given in Gal. vi. 1: "Brethren, if a man be overtaken in a fault, ye which are spiritual, restore such a one in the spirit of meekness; consider thyself, lest thou also be tempted."

(4) Do not forget that the majority of people do not put their "best foot foremost" in an examination.

(5) Do not forget the suaviter in modo in a desire for the fortiter in re.

(6) To recommend the unworthy and ignorant is to take away from the industrious and able man what rightly belongs to him.

One more bright page has been added to the fast closing book of the nineteenth century. Little Crete poor, torn, distracted, blood-deluged than two centuries past.

They encourage super- Crete—the most beautiful island in ficiality and neglect proper foundations, the Mediterranean Sea-is free at last. Finally, the possession of the certificate | For twenty-tour hundred years its ungives a false feeling of security and fortunate inhabitants have been in a state of continuous warfare, until it This statement of the evil results of has become proverbial as the isle of examinations does not imply a recom- discord. In the time of Homer the They little island boasted a number of are necessary evils, whose existence flourishing cities and a dense populashould never be forgotten. But we tion of the Hellenic race. It is recorded that the Apostle Paul visited it All and established the Church there. that we can do is to do away with From 1204 to 1669 A.D. it was under the control of the Venetians, who treated its people with great severity. In 1669 the Turks laid siege to Crete and captured it, only after a struggle of some twenty-four years. From that time to this has been one long history of treachery, oppression, tyranny and The insurrection of 1866-60 blood. was the bloodiest Cretan revolt of this century, and cost the Turkish Government thirty million dollars to suppress. During the insurrection of 1806, which led to the Turko-Greek war, the six great powers adopted a scheme of reform, which was imposed upon the unwilling Sultar by the admirals of the combined fleets. Owing to the laxity of the several powers in not sending sufficient troops to preserve order, the turbulent Turkish elements broke out once more, and this time killed a number of British officers and men. Admiral Noel at once took effective measures to punish the criminals, and in addition has now bundled the last of the Turkish troops out of the island upon a British transport, bag and baggage. As The Globe cartoon so aptly puts the whole matter: "The concert of Europe is doing good work for once, in bundling the Turks out of Crete. The reason appears to be that Pritain is the whole concert." Prince George of Greece is the new governor, and we may now hope that with the twentieth century will come for Crete the rest and peace she has not known for more

by the Hon, G. W. Ross, to the Sun-still have faith in Providence. It sugday School Convention at Peterboro', gests that the Government adopt the with a feeling akin to indignation. To motto: "Schwartz Koppen protects know the Lord's will, and then not do the Republic." it, is to confess failure indeed. Ac- This is one of the inevitable results cording to Mr. Ross, "The moral ele- of teaching "morality" in the Public ment in citizenship was the enduring Schools "incidentally." element . . . It was well known, too. that it was the moral element in a nation which preserved it from decay, tion of The Gaulois telegram, a large It was the lack of this element which public meeting was held in the town was answerable for the fall of the civi-hall of Port Hope, at the call of the lizations of Greece and Rome." We Archdeacon of Peterboro'. In addiknow that it is so—the moral element tion to the influential clergy and lavis indeed the backbone of the nation; men gathered for the Conference, the and we naturally expect Mr. Ross to Mayor, together with the Presbyterian go on and tell us where the teaching and Methodist ministers, was upon the of this all-essential morality, necessary platform, and took part in the proto preserve the nation from decay, is ceedings. The Hon. S. H. Blake, to be found. Then, as the representa- QC., in a powerful address, strongly tive statesman having this part of the contended that, whilst our system nation's well-being in his hands, to of education assure us that the text-book, which needs of the body and mind, taught this necessary morality was it left the needs of the spiritual already in the hands of every couning faculties untouched. He pointed out citizen of this Province. But what why the Sunday School wa inadequate does he tell the teachers of Peterboro'? to supply the needs of the child, and "In the Public Schools it was possible said that, whilst the liberty of the subonly to give moral education incident ject must be respected, he would like ally." Will everyone please take note to see the great Christian communions of that? Can anything be more dis united in an endeavor to have the appointing—can anything be more Bible placed upon the curriculum of ominous for the future? The chief the schools. He thought few would Minister of Education says that the deny that this was an age of irreveressential element which is necessary to preserve this fair Canada of ours from decay can only be taught in the Public Schools "incidentally"—and that means-

coincidence that the daily papers of Canada all contained the following notice almost immediately afterwards:

Paris.—The Gaulois announces that henceforth the motto, "God procastically that it is a good thing, since foreigners might be led to believe from within the mark when he said that our

One reads through the address given | seeing the inscription that Frenchmen

On the day following the publicaadmirably met the ence and disobedience. What he wanted was, first, the Bible as a textbook, and then to have its lessons taught through the medium of a catechism, in which all the questions were answered in the words of the Bible. Perhaps it was more than a mere Even as a literary production the Bible was of unparalleled value. He rointed out that the nations that ruled out or disregarded the Bible were the decaying nations of to-day, and concluded with an eloquent appeal for tects France," will be stricken from unity in forwarding the work of Bibli-French coin. The paper remarks sar- cal instruction.

We believe that Mr. Blake was well

child, therefore of the nation which they are to become in the future. The great question before the people of Canada to-day is, "Shall our Public Schools be allowed to train up a race of educated heathen in which 'morality' is taught 'incidentally', or shall we demand of them the Bible as a necessary educational text-book in the schools of a Christian nation?" surely Canada is a Christian nation.

The great event discussed in school and playground, at church and market, in newspaper and magazine, is the friendly alliance between the two great Anglo-Saxon powers of the world, which seems to be culminating as a force in the development of the present into a future filled with the most brilliant possibilities for the human race. It is not very well known that years ago the idea of an Anglo Saxon union was ably advanced and elaborated by Mr. John Redpath Dougall, of Montreal, in a splendid article in one of the English Reviews, and it must now be pleasant for the modest editor of the Witness to hear all that is being said of the alliance, years after he had made a careful study and forecast of the commercial and political aspects of the relationship between Britain and the United States. The movement is the most inspiring of the times and, though there are modest premonizions of storm in the little breaths of anxiety that blow from various quarters, there is a possibility of the alliance being matured into a treaty signed by both powers. These feeble premonitions, it may be said, are for the most part indicated in the trade jealousies and the Irish question, and nobody seems to care much to enter at any great length upon the close examination of these influences for the present.

Sunday School system was entirely in- the following in the light of the way of adequate to supply the needs of the living even in our own large cities. where the idea of Prohibition is never likely to be viewed favorably by a majority of the ratepayers:

For some time the General Purposes Committee have been considering a resolution passe by the managers of the Waldron Road group of schools. calling attention to the fact that the work, which at great cost was being done in the schools to promote the mental and moral training of the children, was being undone to a very large extent by their being familiarized with the sights and sounds which were invariably associated with publichouses. The managers, therefore, urgently requested the licensing magistrates of Wandsworth to express a strong condemnation of the sale of intoxicating liquors to children attending the Elementary Schools of the district. The committee recommended that a communication should be made to all the licensing magistrates within the jurisdiction of the Board, expressing the Board's strong condemnation of the sale of intoxicating liquors to children of Elementary School age.

The movement in favor of school libraries is extending, and, when it is considered what can be done with a collection of books as a practising section or literary laboratory of the school, it is a wonder that the Canadian provinces have not put forth greater efforts to provide their schools with one. Talk about workshops being attached to our schools! The library is the most useful workshop a teacher can have in which to train a child to learn of the possible companions of his after life. In Ontario the Education Department has had in hand the supervision and fostering of school: libraries ever since Dr. Ryerson's time; and Dr. Ross, the present Minister of: Education, is as keenly alive to the It is a sad phase of child life to read necessity of the library as a school.

adjunct as of any of the numerous are to be truly cultured, and rarely school appliances to be found in the institutions under his direction. Harper, of the Province of Ouebec. has fostered this idea of having a school library attached to the schools within his extensive inspectorate, and the movement inaugurated by him has only to receive Government recognition and support to become a complete success. The "travelling library," which is not unknown in Ontario, is spoken of as steadily working its way in the rural places of the neighboring Republic, and the Dominion provinces that have not yet taken up the "school library" as something to be fostered may possibly be induced to try the plan. In a word, the travelling library is a select assortment of books of the best class, sent out at the expense of the State or of private individuals to country communities. The library remains a specified time at each point; then is moved on to give place to another selection. The cost of transportation and other incidentals is borne by each neighborhood.

The number of people who find their mistake too late in not taking all the schooling they can get is not decreasing. The writer meets them at every turn. Add these to the men and women who never had the chance of getting a good schooling, as the phrase goes, and one can well understand the number of people in the world who can appreciate the wail of a correspondent of one of our journals who signs himself "Ignoramus." book bearing the title of "Ignorance" had fallen into the hands of "Ignoramus," and in speaking of it he expresses himself as follows: "The au-

read, save such books as touch on their profession or trade, fiction, newspapers, and magazines. He points out some new ideas for use in educating the future generation, which are good in many ways, but I would ask him for help for the present one. Many a man and woman debarred by accidents of poverty or health from being educated in their youth, and many more who wasted or let drop their opportunities, would now gladly educate themselves did they know the way, but pause appalled at, and shrink from, a plunge into the great mass of instructive literature without some clue to guide them. Will not Mr. Dorman follow up his work on 'Ignorance' with a pamphlet or newspaper article giving a few different courses of study suitable for men and women which might at least start them on their work of self-culture? He would gain the thanks of many, and it would be a practical way of helping them out of that slough of ignorance which he deplores, and teach them to know 'something of everything,' even if they never reach the height of knowing 'everything of something.'"

The Hon. Joseph Chamberlain's speech on the Fashoda affair has drawn attention to the iniquitous "dog in the manger" policy which has crippled Newfoundland so long. So The Montreal Gazette says, "it comes as a breeze of hope to the people of that colony." Great Britain, as that newspaper pertinently remarks, has for years pursued a policy of doing nothing to offend French susceptibilities, and the Newfoundlanders believe that such policy was taken advantage of by France to add to their difficulties thor says, and I fear rightly; that after on what is known as the French Shore the usual course of school and college of their island. By a treaty made the majority of both men and women before Great Britain's statesmen appreforget that education is a thing that ciated what their American territories must last their whole lives long if they would come to, French fishermen were

an evil, retarding the legitimate development of the colony by depriving its people of the opportunity to use its natural resources. From rights that, by the island contention, were never intended to give anything but equality with the British residents, French statesmen and French ship captains have developed their claims till they assert that British residents on British territory have to make way for a Frenchman whenever appears. he Lobster canneries, in which Newfoundlanders have invested large sums of money, have been shut up, in obedience to French demands, and other things equally galling to Newfoundlanders have had to be submitted to. Protest has been unavailing, and sometimes it must have been a strain on the islanders' sense of duty to agree to what was required of them, in the interests of the Mother Country's good relations with a foreign power. The constant laborer." dropping of colonial protests has served its purpose to some extent, however. Admiral Erskine and Sir John Bramston were this year sent out as a royal commission to enquire into Newfoundland's grievances, and, while their report is not yet published. it may be inferred that its summing up of the situation, or, at least, the preliminary statements of its framers. must be of a nature favorable to the colony. Otherwise Mr. Chamberlain would hardly have spoken as he did. Newfoundland, he says, is seriously the awful grandeur of the river gorge. is of no advantage to France, although two miles from the whirlpool, the to come immediately. There will be Lincolnshire village, with its quaint no notice to quit, such as the Fashoda little church lighted up by the varieoccupation led to. But, with a leading gated colors of memorial windows—minister taking such a position, it is the stained glass no cheap product, fairly sure that the matter has reached but something worth gazing upon.

given privileges on the then unoccu- has a powerful friend, where before it pied coasts that, as they are now had only unsympathetic listeners, and asserted by France, are found to be that something will be attempted for the removal of the cause of grievance. An insistence that the French fishermen who frequent the shore shall have nothing that the words of the treaty do not provide for may be the first step towards the end.

> It is said, and with some show of truth, that the higher salaries paid in the Board Schools of England are attracting teachers who a few years ago would have entered secondary schools. But there is another side to the question. Witness the fact that a School Board in Wales is advertising for an assistant-mistress to take charge of the sewing and to teach infants, at a salary of £15 a year. Another recent advertisement is more amusing than tragic. A certificated mistress is needed in a Church school. have no family, but must possess a husband who is "an experienced farm

During last summer vacation I paid a visit to the Niagara peninsula, and was fascinated by its manifold attractions. This is the name given to that part of the Province of Ontario, Canada, which lies between Lakes Erie and Ontario, and is bounded on the east by the great river. It is a land of gardens, of orchards and of pleasant homes. The sylvan beauty of the inland scenery contrasts strikingly with the magnificence of the cataract and suffering from an intervention which In the quiet village of Stamford, but a serious detriment to a British colony, traveller who has visited old England The end of the trouble is not likely recognizes a perfect reproduction of a a new stage, that Newfoundland now Probably nowhere on the continent is

shady avenues, exquisite prospects. There are two noble panoramas—that of the Falls, as seen from the upper steel bridge, and that of the lower I told her I was returning to Niagara Niagara River, as seen from Queens- Falls, Ontario. ton Heights sense left without stimulation. Almost every mile along the way is associated with some daring deed, or some eventful contest. Here the gallant Miller made his famous dash at the battery; there Winfield Scott surrendered; there Sir Isaac Brock fell; there Laura Secord, the heroine of Canadian story, started out on her famous midnight wa!k.

It is impossible in reading the story of the War of 1812 as it affected the an peninsula not to feel a warm sympathy with the people who were fighting for their homes and for their historic flag. Now at the close of the nineteenth ed itself as not the least among the Marathon. It was here that the last ans are beginning to do justice to the soil was sturdily and definitely re jority in the great struggle of the Re- by the parliament of the province in volution, were branded as Tories, cred. honor of the patriots who fought on ited with countless crimes and misde- that memorable evening in July, 1814, meanors they were never guilty of, and and, after the hardest of struggles ruthlessly expelled from their homes, conquered. of our day.

there to be found so delightful a ride tation they enjoy. An incident which for the wheelman as that from Buffalo happened to me may serve to illustrate to Niagara Falls, and thence through this. As I was skimming along from Stamford to St. David's, Queenston Tonawanda one morning, after a visit and Niagara-on-the-Lake. It affords to Buffalo, a piece of slag in the treacha combination of all that is delightful erous cinderpath punctured my hind to the senses—side paths like silk, tire. A pleasant faced woman, aided by her family, all bright and helpful, repaired the injury, the husband, who carried on the business, being absent. Inferring (wrongly) Nor is the historical from this that I was a Canadian, she remarked that Canadians often stopped at the repair-shop. "And every one of them has treated us well," she continued. "I wish I could say the same of the people on this side, although I am an American myself."

The scene of the most bitterly contested battle of the war is close to the great cataract. The eminence for the possession of which so many brave men lost their lives is now crowned by unæsthetic observatory Arross the way is the quiet cemetery by the Presbyterian Church, where many of the dead lie buried. Canadians the spot awakens memories century, when the Republic has assert-similar to those of Bannockburn and great nations of the earth, her histori- of four successive invasions of their colonists, who, differing from the malpulsed. A monument has been erected

As United Empire Loyalists in their Most American visitors, remembernew domicile in Upper Canada, they ing the account of the battle as given established on the shores of Lake On in their school histories, are puzzled, tario a community marked by all the amused or chagrined at the confidence essential excellencies which the mod- with which the keeper of the Lundy's ern social philosopher delights to enu- Lane Observatory insists that the inmerate as he contemplates the America scription on the monument is wholly justified by the facts of the case. At the time of the war the population of the whole province was about ters for themselves they are mortified. 85,000; now it is 2,225,000. The They find that they have been fooled people may well be proud of the repu- by their school histories. The follow-

ing is from an account of the battle as was bitterly opposed to the invasion of given in a widely read history for Canada, which he characterized as a schools:

their efforts, and left the Americans in possession of the field. This battle of the initial crime of the invasion. Many Lundy's Lane, or Bridgewater, was one of the most hotly contested actions Quincy; but that is by the way. Cerever fought in the new world. Three tainly one undoubted disgrace still thousand Americans and 4,500 British took part in it. The former lost 743 in killed and wounded; the latter, 878."

The above is complete fable. The requirements of grave historical accuracy overturn nearly every statement made.

"At midnight the Americans gave up their efforts, and left the British in possession of the field.

Four thousand Americans and 2,840 British took part in it. The former loet about 1,200; the latter, 878."

The second in command of the United States forces, General Peter B. Porter, in a letter recently published by the Lundy's Lane Historical Society, dated Aug. 12th, 1814, and addressed to D. D. Tompkins, Governor of New "a defeat," in which "the dead, the wounded, and captured artillery and our hard-earned honor were left to the enemy." The general who commanded the American forces at the close of the battle (Brown, Scott and Porter all being wounded and hors de combat) was court-martialed, as were Hull after his defeat at Detroit, Proctor after his defeat on the Thames, Prevost after his defeat at Plattsburg. It is true the General Ripley's ac littal—for a verbatim account, again consult the Transactions of the Lundy's Lane Historical Society—but it was as a defeated general that he was brought to account.

character" in "My Study Windows," complished nothing. A chosen band

"b' ccaneering expedition." "At midnight the British gave up disaster followed disaster, he regarded these as by no means so disgraceful as patriotic Americans have agreed with remains to be wiped out; the narration of the history of the war as far as American writers have undertaken the task. The Canadian, Kingsford, in the eighth volume of his "History of Canada," has done good work; but we want it done from the American standpoin*. As matters stand present, American visitors to peninsula, in quoting their historians as authorities, expose themselves to ridicule.

To quote one signal instance out of many. Any serious student of the campaign of 1813 knows that the lowest point in the fortunes of the British defenders of Upper Canada was reached when Chauncey, with his fleet, landed a victorious army of 4,000 men at Niagara on-the-Lake, and left York State, specifically calls the battle General Dearborn master of the situation. The British hurriedly evacuated Fort George and retreated to their rallying-point Burlington last at Heights, near what is now the prosperous city of Hamilton. Until reinforcements should arrive they numbered barely 1,500 men, in all respects badly equipped. The victorious American army, nearly 4,000 strong, moved along the lake shore to drive them from their position; and to await the court-martial terminated abruptly with attack probably meant defeat and the loss of the province. On June 5th the invaders were but seven miles off, at Stony Creek, in a well-chosen camping-ground. This date marks the turning point of the war. A brilliant exploit on the part of the forces at bay The admirable Josiah Quincy, whose changed the attacked into pursuers, life and character Lowell has outlined and completely demoralized the invadfor us in his essay, "A great public ing army, so that henceforward it acof 704 redcoats, under a leader who | Secord so highly distinguished herself. was afterwards famous at Waterloo, after midnight, bayoneted the pickets, paucity of their numbers, with the two who have the national ear, through generals, Winder and Chandler, and laziness or incompetency, retail garbled over a hundred others as their prison- or invented historic material, fit only It is one of the best inclunces on to tickle the national vanity. record of "rushing a camp."

served out to the ...nerican schoolboy:

"A superior force of Americans set out in pursuit (of the British to Burlington Heights), but were attacked at night by the British while encamped a few miles from their lines. The enemy were so warmly received that they beat a retreat, but they had managed in the melee to capture the American generals, and the officer left in command shrank from the responsibility of further offensive operations, and fell back to await orders from Dearborn. This was unfortunate: an immediate attack on the British could hardly have failed of success, for their general also had been separated from his army in the darkness, and was found next day several miles from camp with neither hat nor sword."

He ends here. The real fact is that, before the American army got back to Fort George, the retreat rendered necessary by the demoralization, consequent on the night attack, had turned into a flight; and that the general in the woods is a silly fabricahas no space lest for the important St, Louis, in The Independent, N.Y. action at Beaver Dams, where Laura

Examples like the above could be stole into the American camp shortly multiplied ad nauseam; but I have quoted sufficient to show how our dispersed the bewildered battalions as schoolboys are taught fables after the they attempted to form, captured two manner of the Chinese. It is imposof the eight field-guns, and retired be-sible to learn the valuable lessons fore daylight should disclose the which h story teaches when the writers

A pan-American Exposition is pro-The following is the garbled account jected for the year 1901. It is to be held at La Salle, six miles south of the great cataract, and near the spot where the intrepid French explorer built the first vessel to navigate the upper lakes. Hundreds of thousands will visit the locality, and will have their minds turned to the deeds of the past. The history of the district begins so late as 1678, and covers no very long period. We are beginning to have history written in a fair and judicial spirit, which scorns prejudice and mis statement. Mr. Clowes, who is now publishing a history of the British, Royal Navy, a magnificent work, has magnanimously entrusted to our late Assistant Secretary of the Navy, Mr. Theodore Roosevelt, the task of narrating the naval operations of the War of 1812. He is certain to discharge the delicate task efficiently. We shall have no repetition of the juggling with figures. I quote again from the same precious school history, which makes Perry capture 600 prisoners, when the enemy wert into the fight with but 384 men story of the wanderings of the British in all! Let us hope that before the Exposition opens some competent histion. It is on a par with the "Booty torian, of the calibre of Mr. Roosevelt, and Beauty" yarn with which Hildreth shall have given us a trustworthy hisabsurdly closes his account of the tory of the land operations during the battle of New Orleans, and with the same period. The present histories story of the scalp found above the are not staffs to lean upon, but reeds Speaker's chair in the Parliament which pierce the hand that trusts House at (Toronto) York. Our his-them.—By Prof. J. M. Dixon, F.R.S. torian gravely narrates this fable, and Edinburgh, of Washington University,

MAGAZINE AND BOOK REVIEWS.

In the November number of Scribner's Magazine, with which the year ends, their two important serials are Red Rock, by Thomas concluded. Nelson Page, has fully sustained the promise with which it was begun, and should be a considerable addition to the historic literature dealing with the Civil War in the United States. is well known by this time, "The Workers," by Prof. Wyckoff, treats of social conditions. It doubtless will give a strong impulse to true humanity, but in it the observant reader will also discover that the tendency in the novel of the future will be not to the invention of imaginary episodes, however true they may be to the principles and ethics of art, but to the relation of what has actually happened in the author's life, hidden and altered as may be necessary. Letters of Robert Louis Stevenson will form one of the most important departments in Scribner's for 1800.

Lippincott's is always distinctly popular in the character of its literature. Having no illustrations, it gives all its space to useful and entertaining reading matter. It has no serials, so each number is complete in itself, but it will during the next year retain its most distinctive and popular feature, a complete novel in each issue. Lippincott's is one of the few well-known magazines that are as well pleased to have a good story from a new writer as from one who is better known.

The November number of St. Nicholas was a birthday issue. This magazine, for children, is now twenty five larly good one, and, as usual with The years old, and it still is happy in the services of its first editor, Mary Mapes The indefatigable and popu-Dodge. lar Mr. Henty begins a serial which treats of American history, and Mrs. Barr will contribute during 1899 a romance of Old New York. On the last i page Gelett Burgess adorns a moral—a very plain one—with his Goop Babies.

The Bookman, since it is The Bookman, tells us in its November issue all the current information, and a trifle more, about Cyrano de Bergerac. There is also something about Mr. Hall Came and his "Christian," one cannot take the responsibility of calling it anybody else's, along with a picture of Glory Quayle, overcoming the Rev. Mr. Storm, which ought to keep a good many people from going to the play. Clement Shorter is particularly happy in "A Literary Causerie" for this month.

One may ignore the late war in another magazine but not in the American Monthly Review of Reviews for November. The most important contribution on this subject is from Mr. lames Creelman, and is entitled "My Experiences at Santiago." Mr. Creelman is a gentleman who has had other opportunities of forming war impressions from the standpoint of a correspondent, and this makes his experiences all the better reading. One of the most important items in the list of contents is An Impeachment of Modern Italy by Ouida. There is a reply to this in the same number by Giovanni Della Vecchia.

The Thanksgiving number of The Youth's Companion contains a sketch of Mary E. Wilkins, entitled "Seventy Years Ago in New England," which is written in her own amusing strain. is illustrated by a charming drawing. There is also a jolly circus story by J. L. Harbour, with most successful illustrations. The number is a particu-Companion, one can feel sure that the success which it merits will follow.

The Saturday Night has achieve ! a genuine success with its Christmas The colored plate. number. Mystery of the Morn, deserves all the flattering things that have been said about it, a surprising thing when one considers the general rule. The stories are, almost without exception, interesting, the first requirement of every reader whether he be professional or nonprofessional, so far as literature is con-Mr. Sheppard is to be congratulated on his account of tragedy of a South American Republic; Mack contributes a short story entitled, "Rebel Met Rebel," which is a considerable advance on anything he has before published, and which justifies one in saying that Mr. Clark has attained success in this department of Among other contributors who may be mentioned are Mrs. I. K. Lawson and W. A. Fraser.

Mr. S. R. Crockett's latest volume is entitled "The Red Axe." It has been recently issued by the Copp, Clark Company, Toronto. For the meantime Mr. Crockett has exhausted Scotland, and is following the fortunes of one of his brotherhood of adventurers in Germany. In the first chapter or so the story is a little too red, or "bluggy," as the small boy used to but after that the author deals successfully with the romance of the Middle Ages, and adds another to the already long list of his readable books. It was announced some time ago that Mr. Crockett was pledged to write so many stories for many years ahead. There is every evidence of this being true, but when his time of servitude is over he will accomplish success more happily by taking time.

Received from Macmillan & Co., through their Toronto agents, The Copp, Clark Co.:

"Macaulay's Life and Writings of Addison," edited by R. F. Winch.

From the American Book Company, New York:

"American Elementary Arithmetic," by M. A. Bailey. "A Primary Arithmetic," by A. R. Hornbrook. "Language Lessons," by J. G. Park. "Geographical Nature Studies," by F. O. Payne. "The Story of the English," by H. A. Guerber. "Outdoor Studies," by J. G. Needham. "A Short Course in Music," Book 2, by F. H. Ripley and T. Tapper.

We have received from W. and A. K. Johnston, Edinburgh, their latest map, an excellent one, of the Dominion of Canada. The new territories, especially the gold districts, are marked out with the latest developments, and are among the many considerable changes that make even modern maps of our Dominion out of date. While a Canadian can never scan such a thing as a map of his own country without lamenting some eccentric dash of the boundary line, at the same time the more than sufficient greatness of the country at our disposal is even more plainly evident. The map is specially commended to our schools

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