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THE CANADA EDUCATIONAL MONTHLY

JUNE-JULY, 1899.

QUEEN'S UNIVERSITY, KINGSTON.

ROBERT BURTON, M.A.

Charter incorporating Queen's Uni- from wealthy patrons. versity received the great seal, a provincial charter previously granted to the "University of Kingston" having been annulled, as the Royal Charter must take precedence of all others.

Though this university is non-denominational in all except the theological faculty, the genius of Queen's is essentially Scotch. Her system of government and her courses of study are in a general way modelled on those of the Scottish universities, and her strength is very much that of the Scottish character-lofty ideals, an innate love and reverence for true learning, perseverance, and frugality without penuriousness-these are the main elements which have contributed to the growth and success of Queen's. The following partial list of those Canadians who were concerned in the securing of the charter shows that from the very first the University has had the support of men of great intellectual and moral force : Hon. William Morris, Rev. Robert McGill, Rev. Alexander Gale, Rev. William Rintoul, Rev. John Machar, Rev. John Cook, Hon. John Hamilton and Hon. John A. Macdonald.

The faith of these men and of those who undertook the work of instruction must have been great, for the outlook was not very bright, and from the first the financial problem was a pressing one; neither at the outset nor at to the buildings which were then upon any time since has Queen's been the it. About this time the Royal Med-

On October 16th, 1841, the Royal recipient of many generous bequests Careful finan. cing and the self-sacrificing efforts of many devoted friends of limited means have enabled her to exist and to develop-to tide over the crises in her history, and to attain the assured position which she holds to-day. Though a large measure of the success is due to the ability and energy of the present Principal, it is but fair to remember his faithful predecessors, who laid the foundations and fought the early battles of the University.

> The first Principal was Rev. Dr. Liddel: (1841-1846), and his successors were Rev. John Machar, D.D. (1846-1852); Rev. Dr. George, Vice-Principal (1852-1857); Rev. Jno. Cook, D.D., LL.D. (1857-1860); Rev. Wm. Leitch, D.D. (1860-1864) ; Rev. Wm. Snodgrass, D.D. (1864-1877); Rev. George Munro Grant, 1877. In 1877 Rev. Dr. Cook was elected Chancellor, and on the expiration of his term of office, in 1880, Sir Sandford Fleming was elected, and is now serving his seventh triennial term as Chancellor.

> Classes opened in 1842 in a frame building on Princess street, with three students in attendance, and two professors. Two years later there were 21 students, and the classes were removed to two or three small stone houses on William street. In 1854 the present campus was purchased, and the classes, numbering 31 students, were removed

ical College of Kingston was estab in from hundreds of generous friends, lished, and in 1855 it was affiliated with Oueen's University. still retaining its original charter it has practically ceased to be a separate in ... stitution, and is now the medical faculty of Queen's University.

When Principal Grant took office in 1877 the number of students in all faculties was 1 30, and three years later, when the present university building impressed upon the students of Queen's was opened for occupation, the num ber had increased to 240. During the session which closed in April last the citizens of our country believe most total number of registered students in the various faculties was 65c. less satisfactory is the increase in the staff of instructors. The initial staff of two has expanded into a staff of over forty professors and lecturers, assisted by about twenty tutors. When the present university building was erected, and especially when it was, in 1889, supplemented by the Carruthers' Science Hall, with its very complete equipment, the friends of the University thought that the question of accommodation was settled for long years to come. But already the buildings are taxed beyond their capacity, and the time has come for the erection of new buildings or else the limiting of the number of students to be admitted.

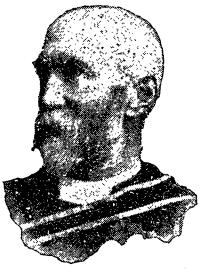
In 1803 the School of Mining and Agriculture was established in Kingston and affiliated with Queen's, and, shortly after this the Faculty of Applied Science was established. The University now CATIONAL MONTHLY will remember includes the following faculties . Arts, theology, law, medicine and applied science.

benefactors and friends of Queen's are those who felt that there was no justly proud, but it has not been all alternative but to accept the proposed plain sailing, as one might suppose from the steady progress above indicated. In 1869 the Government grant was of a different mind, and at the spring withdrawn, and the outlook for Queen's convocation in 1885 a formal refusal and similar institutions was dark to enter the federation was carried indeed. No wealthy benefactor came with much enthusiaem. It proved to to the rescue, but contributions flowed be no mere superficial sentiment of

who gave as they were able. Still the Though future was uncertain, and the appoint ment of Dr. Grant as Principal at this juncture was most providential. It is. perhaps, not too much to say that his indumitable energy and his splendid executive ability saved Queen's to Canada. And those of us who know by experience something of the ideals and the potency of our alma mater in influencing for good the lives of the heartily that he has rendered to Not Canada a service more beneficent and enduring than could be rendered in any other way. This is not to belittle the work of his predecessors. All honor to them. But their hopes were in danger of remaining unfulfilled and their labor of being brought to naught, and it has been given to him to bring that work to fruition, to tide the University over the greatest crisis of its history, and to so increase its efficiency that it to day the more fully expresses the ideal and justifies the faith of its founders. Since becoming Principal, Dr. Grant has been instrumental in raising nearly half a million dollars for the endowment fund, and now the total endowment, while not large enough to meet any very considerable extension of the work, is sufficient to give a guarantee of stability.

Many of the readers of the EDUthe agitation for College Federation in the years 1883 5. The financial status of Oueen's was still far from satis-This record is one of which the factory at that time, and there were opposed federation, for, in the succeed ing efforts to increase the endowment, the contributors were numbered by Looking back over the the thousand. progress that has been made during the past fifteen years one is forced to conclude that there is a place in Ontario for a University entirely independent of Government support, and sustained by the loyalty and zeal of its graduates and the citizens who have a disinterested love for higher education.

In this connection a word may be said as to a criticism frequently made



Principal Grant.

regarding Queen's men. The so called clannishness of Queen's men is proverbial, and probably there is not a student or graduate who has not been In the course of nature the son who of the graduates and alumni is taken. feels and who seeks to discharge the

lovalty that actuated those who by the munificence of a few millionaire admirers, or than the son whose mother is a kind of voluntary indigent dependant on a rather parsimonious government. The same is true of one's relation to one's alma mater, and this is one reason why Queen's has always been pre eminent in respect of the filial attachment of her sons and daughters.

The affairs of the University are efficiently managed by a Board of Trustees, the University Council, and the Senate. The Board of Trustees is elected by votes of graduates and alumni, except five, who are elected by the University Council. The term of office is five years and a certain number retire each year. The annual meeting is held in the Senate chamber on the evening of the last Wednesday in April. This board has control of all the investments of the University and requires to pass upon all questions affecting the finances of the institution. The present chairman of the board is the tion. Mr. Justice MacLennan, L.D. D., of Toronto, and the secretarytreasurer is J. B. McIver, Esq., Kingston.

The University Council, whose work is largely advisory, is composed of the chancellor, the trustees, the members of the Senate and an equal number of elective members. The elective members hold office for a term of six years, six of them retiring annually except every sixth year, when ten re-They are elected by the vote of tire. registered graduates and alumni, and are eligible for re-election when their term expires. The Council elects the asked why it is. What has been said chancellor except when there are two above accounts for it, at least in part. or more nominees, in which case a vote

The Senate is composed of the ofresponsibility of sonship towards his mother develops a deeper affection for that parent than the son who sees his mother housed in the most imp sing buildings and her every want supplied demic nature, arranging courses of

study, conferring degrees, maintaining can get his standing in the senior class discipline, etc. It will thus be seen of the same subject. This plan neces-that the basis of government is demo satily involves one very important conthat the basis of government is demo cratic and that every graduate or alum nus can exert a direct influence upon the administration of affairs through the representatives elected. A large percentage of the graduates accept the responsibility that this entails and take a very keen interest in everything that pertains to the welfare of the Univer-So marked is this that if the of sitv fer were made to morrow for the re storation of the Government grant, carrying with it a measure of control over the University by the Provincial Legislature, the proposal would doubt less meet the same fate as did that for federation.

The programme of studies differs in some important particulars from that of the other seats of learning in Can ada. In the regular pass course lead ing to the BA. degree the subjects are divided into junior and senior classes, and the student completes his work on each subject in two years. Opinions may differ as to the value of this plan, but it is found to work well at Queen's. It certainly has this advantage, that in any one year the attention of the stu dent is concentrated on some three or four subjects a plan which is con four subjects, a plan which is con ducive to thoroughness, and which is con student should be compelled to help ducive to thoroughness, and which half a dozen lines of study abreast of permits of greater opportunities for one another. The theory at the basis reading up on the subjects in hand, of the curriculum of Queen's is that and thus supplementing the work of when a student attends the lectures in lecture room and text book. It has a given subject and takes a satisfactory also another advantage for those who go on to the honors courses, as will be seen below Another feature 's the freedom of choice allowed the student therefore be allowed to concentrate in the order in which he shall take up his powers upon other subjects of the the studies prescribed and the number of classes he shall write off in any one year. While a certain order is recom-this order may for good reasons be departed from, the only essential being that a student must take the take up ins powers upon other subjects of the course. This is a wise plan and it often enables a student who has little natural aptitude for certain subjects to so arrange his work as to combine one this order may for good reasons be departed from, the only essential take up ins powers upon other subjects of the can master with greater ease. being that a student must take the It will thus be seen that even in the junior class in any subject before he ordinary pass courses Queen's allows

sarily involves one very important consideration, viz., that the student gets his standing in each class as he completes the work required in that class, irrespective of what he may do in others, or of the total number of classes passed in any one year. No student is compelled to pass for a second time a class in which he is proficient merely because that class is arbitrarily grouped with several others in which he is not proficient. Such a plan may be necessary in preparatory schools, but it is not adapted to secure the best results in a university. The student seeking a university training is presumably desirous of a liberal education, and no education is truly liberal which dwarfs individuality by putting all men through the same machine. If a college education consists in the accumulating and systematizing of the facts connected with various subjects of study, all of which are regarded as equally important and valuable, then the more uniformity there is the better. But if it is the training of one's powers, and the in vestigation of principles, there seems to be no very good reason why a student should be compelled to help

as much latitude as possible, and en-advantages afforded by such a deavors to make these courses an effi liberal programme of studies are cient means for the development of being more and more appreciated the student's own powers. Personality by the students. The number of stuor individuality is accounted of more dents taking courses leading to the deworth than uniformity. But it is when gree of M.A. 13 increasing from year to the honors courses are examined that year, and the amount of post-graduate one sees how fully this principle gov- work done at Queen's is larger, in pro-erns. It is safe to say that no other portion to the number of students institution of higher learning surpasses registered, than at any other University Queen's in respect of the number and in Canada. variety of options enjoyed by students | Another feature of the work which who seek to pursue their investigations has now passed beyond the experiand studies farther than provided for mental stage is that of extra-mural in the ordinary courses.

may not understand the system in are prosecuting their studies in this vogue at Queen's, it may be said that way. The work is done mainly by the M.A. degree is given not on a corresponding tutors, who assist the thesis but on the merits of the work extra-mural students registered in the done in any two honors departments different subjects. Many of those who in the literary courses, or in one de take this course are school teachers, partment in the mathematics, physics men who in their earlier days did not and science courses, together with the find it possible to secure a university pass classes prescribed in the College training, and who are now so situated calendar. Generally speaking the course that it is impossible to take the course leading to the M.A. degree covers five intra-murally. The weaklings invariyears, though honor matriculants are ably fall by the way, for there is no able to shorten this by a year. The lowering of the standard, and the tale first three years are spent mainly on of work demanded is such as to deter the pass subjects, and the last two are all but the most persevering. Profesdevoted entirely to the one or two sors and tutors bear testimony to the honors subjects. The student who fact that the quality of work done by desires to proceed with honors work extra-murals steadily improves as they need not, therefore, elect which course advance in their course. While such has been at least two years in col- not coming into personal touch with lege, and by that time he will be suffi- all the life of the University, they canciently aware of his powers and pre-not fail to absorb a good deal of true dilections to choose wisely. On the culture, and the institution which thus literary side the options are so numer-i seeks to help them is raising the ous that every student should be able standard of the teaching profession, to find that which best suits his own and, indirectly, of Canadian citizenhabits of mind, and which will, there | ship. fore, give him the training in which he is likely to attain the highest satisfac- any of the readers of the EDUCAtion and success. He has a choice of TIONAL MONTHLY who contemplate any two of the following courses: pursuing university studies extra-Latin, Greek, Moderns, English, His- murally. Many good men have been tory, Political Science, Mental Phil discouraged by undertaking too many osophy,

studies. Students in all parts of Can-For the information of those who ada, and some in the bordering States, or courses he will pursue until he students undoubtedly miss much by .

> A word of caution may be given to Moral Philosophy. The subjects at once. Four subjects of study

an intra mural, who has all his time to dered possible and safe, because of the devote to the work, and has, besides, the advantage of direct contact with his professors. It is folly, therefore, for a man, whose time is largely taken up with his daily occupation, to attempt a similar amount of college work This warning is even more neces ary to those who attempt the honous courses extra-murally. A favorite course with extra-murals is that of izations, and is acknowledged honors English, and yet the writer can say, after two years' experience as tutor in that subject, that scarcely an extra mural during that time, and there were several among them with good literary taste and good critical powers, adequately covered the prescribed course of reading.

It may not be out of place to close this sketch with a glance at college life at Oueen's from the students' standpoint. To the outside world the student life of a college seems to be expressed through its athletic organiza tions, and examination lists, but these are only a partial expression of that life, albeit an important one. The prowess of Queen's in football and hockey need not be discussed here, though these sports undoubtedly exert a beneficial influence on the corporate student life of any college. Love for one's alma mater and loyalty to her best traditions ought to be part of the equipment of every student, and different institutions foster these sentiments in different ways. At Queen's there is no college residence to promote this, the students being scattered throughout the city, but student organizations, athletic and otherwise, more than atone for this lack, and it would be hard to is more strongly or more fully felt.

are a normal year's work at Queen's for [self government, a policy which is rengenius of the institution which has in some way declared that the supreme authority among the students shall be vested in the Alma Mater Society, membership in which is open, not only to the undergraduates of all faculties and affiliated institutions, but also to all graduates and alumni. This society supreme among student organis by the Senate as representative of all student interests. To the students. through it, is committed the largest possible share of self-government, and the trust is seldom betrayed. Only once in ten years has the Senate interfered, and then it was on a question towards the right solution of which public opinion among the students was hastening. Every question affecting the student body as a whole has to come before it and all athletic and musical organizations of the University are responsible to it. Its meetings are practically sessions of a parliament in which the students speak, not through representatives, but direct, and the majority rules. The practical benefits of such an organization are easily to be discerned. A University is a microcosm, and the student life within it is a state in miniature. All the problems to be faced in the larger arena of citizenship have their prototype here. There is the same division into party, the same balancing of expediency against principle, the same in trigues and diplomacy-in fact, all the lights and shades of human nature are here reflected with surprising clearness-and out of it all emerging what is on the whole the good of the student find a college where the organic life body. It is here that one is able to see that the service rendered by each This is due partly no doubt to is to the advantage of the whole-that the influence of genial, broad minded the athlete, the brilliant student, the Professors, but largely also to the pol- orator, the critic, the constitutional lawicy pursued by the Senate, of granting yer, even the book-worm and the fellow to the students the fullest measure of who has little force of character in himself and who follows blindly some soil, and present no striking peculiarleader whom he has enshrined as his ities. hero-that all of these, working apparently fo. the most part quite independent of one another, help to produce that mysterious organism called society and to illustrate the no less mysterious truth that such diverse elements, held together in the unity of a single corporate life, produce the maximum of unity and logalty. Hence, not the least of the reasons why the Queen's student loves his alma mater is the fulness of the provision that is made there, not only for his intellectual and moral quickening, but for his development as a member of society through the institutions that have grown up within the University. Of the many sub-organizations representative of different faculties and sections of students, nothing need here be said. They are such as are indigenous to university

The future of Queen's seems now to be assured. The foundations have been laid broad and deep, and as her past needs have inspired noble selfsacrifice, it is only to be expected that present and future needs will do no less. While conservative enough to maintain her dignity as an historical seat of learning, she is truly liberal and progressive. Her function is to seek truth and pursue it, to teach men to think, and to be satisfied with nothing short of the truth. So long as she is true to that ideal her success and prosperity are assured and succeeding generations of graduates will continue to sing with enthusiasm the drinking song of their college days,

> Here's to good old Queen's, Drink it down.

THE MORAL PRINCIPLES OF THE TEN COMMANDMENTS.

A LESSON IN MORALS.

F/R. J. M. HARPER, M.A.

the first principles of morality. By them the cardinal virtues and vices are emphasized.

"I will write upon these tables the words that were in the first tables, and these judgments thou shalt set before the people."

The Ten Commandments are otherwise known as the Decalogue or the Moral Law.

Hints: A lesson on the history and geog-raphy of the peninsula between the Gulfs of Suez and Akabah. The incidents connected with the giving of the law—the breaking of the five tablets on which the law was written, 'heir restoration and after-preservation in the Ark of the Covenant.

Questions: What is a first principle? Give one of the first principles or laws of bygiene, and one connected with the opera-ions of the mind. What is a bad habit? Name a bad habit of body, a bad habit of vices.

The Ten Commandments enunciate [mind, a bad habit of soul. Do all bad habits involve a breaking of some one of the Ten Commandments? Name three of the cardinal virtues, and three vices. The word cardinal comes from cardo, a hinge; why then are certain virtues called the cardinal What is meant by character virtues? building? Give the meaning of the word judgment. What is the derivation of the word decalogue? Wherein is to be found the difference between the Moral Law and the other two divisions of the Mosaic legislation, the Ceremonial Law and the Judicial Law. Is the Moral Law binding on all the generations of men? In what books of the Bible are the Ten Commandments to be found?

> The fulfilment or filling out of the Ten Commandments by Jesus Christ involves an enunciation of the higher principles of the Christian morality. His developments of the moral law emphasize the Christian virtues and

to fulfil the law."

These developments of the moral law are to be found in the sermon on the Mount, as well as in other of Christ discourses.

Hints: A lesson on the country around the supposed hill on the slopes of which Christ taught His disciples. A description, by way of contrast, of the other mounts in Palestine connected with the history of Christ's public ministry.

Questions. Illustrate the meaning of the word fulfilment when used in the sense of development. Can a precept mean more than it seems to mean? Do the Ten Commandments mean more than they seem to mean? What is meant by a higher principle of morality? Enumerate one of the first principles of Christian morality. Which of these two is the higher principle : Love one another or Love your neighbor as yourself? Which of these is the fuller development of Christian morality: Love your enemies or Bless them that curse you? Repeat any one of the Ten Commandments, and then repeat its developed form as given by Our Saviour. Repeat one of the Beatitudes, put it in the form of a command, and then say of which of the precepts of the Decalogue it is a development.

THE FIRST COMMANDMENT (MOSES).

Thou shalt have no other gods before me.

The nations that have worshipped false gods have had a changing morality. The worship of the only living and true God recognizes but one morality. Only the fool hath said in his heart there is no God.

"The Lord our God is one Lord," was the message of Moses, in face of the many baals or gods wor- Jupiter was a living personal god, or was he shipped in Canaan in bis time, cach marked by local distinctions. Baal stood as a personation of a supervisory power in nature, the fructifier of the false gods mentioned in the Bible. soil. In subsequent times native worship led to the invention of the Hindoo badas, the Chaldæan worship of the heavenly bodies, the Arabian wor- sect that recognizes no God?

"I am not come to destroy but | ship of the elements and the Greek mythology.

> "Thou shalt fear the Lord thy God, and serve Him, and shalt not go after the gods of the people which are round about you," was a message specially addressed to the Israelites under the circumstances of their migration.

> "Thou shalt love the Lord thy God with all thine heart, with all thy soul and with all thy might," was the further message of Moses, and Christ uses the words as he lays down the first principles of the Christian morality. The service of the Lord as one God is of body, mind and soul. We must have Him in mind in all we do. A healthful moral drill is to be found in every line of duty.

> Hints: A lesson on the false gods of the Bible, another on the gods and goddesses of the Greek mythology, and an explanation of the words monotheism, polytheism and panthe ism. The design in a daisy proves that there is a great designer, the only living and true God. He is the designer, the great first cause of all that enters into the physical, mental and moral conditions of our ature. In Him we live and move and have our being. The knowledge of God is a human instinct. We helieve in His existence, and thus can prove it from within and without.

Questions: What tribal nations were in the neighborhood of Sinai when the law was given to Moses? What was the religion of the Egyptians in the days of Moses? Explain the difference between deism and theism. What was the origin of polytheism? What is a fetisch? Name any five of the gods of Olympus. Which of these was supposed to have been the earliest in point of existence? What idea did he represent? What idea did Jupiter (dies pater) stand for? Did the Greeks and Romans actualty believe that only looked upon as the poetic representation of an idea? Name the planets of our solar system. What ideas did their names represent in the Greek mythology? Name the Wha! was the origin of these gods, as representa tions? Nane the religions of the world at the present time that recognize only one living and true God. Is there any religiou.

PIETY-INFIDELITY.

The virtue enunciated in the First Commandment is piety; the vice condemned is infidelity.

EXERCISE I.

Name any ten persons mentioned in the Bible distinguished for their piety. Give one event in each of their lives that proves this. Was Noah a pious man? Name any person mentioned in the Bible who was an atheist. What event in his life leads you to believe him to have been such? Under what circumstances was Adam unfaithful to God, and Eli and Saul and Ahab? What is the difference between atheism and infidelity? If infidelity means unfaithfulness or the forgetting of God name any ten persons of whom mention is made in history, who, by their conduct, showed that they had for the moment forgotten God.

THE FIRST COMMANDMENT (CHRIST).

Thou shalt worship the Lord thy God and Him only shalt thou serve.

Piety is a habit; implety is an act, and infidelity is the continuance of acts of impiety, the forgetting to worship and serve God in continuous acts of body, mind, and soul.

Christian principle : The neglect of any natural law of body, mind or soul is a breaking of the First Commandment.

"Our Father which art in Heaven," is the new name which Christ applies to God; the Christian society which He founds is to be known as the Kingdom of God. An act of impiety is a crime in the new kingdom, and infidelity to its Lawgiver the meanest of vices. Cl. i. an piety is a grace as well as a virtue.

"That ye may be the children of your Father which is in Heaven," develops the relationship to God is the loyalty of Christian love, a step further. Who would be unfaith and is demander by the First Com-

the Ruler of the Fingdom of Heaven, as defined by Christ, and not consider it a greater meanness.

"Your Father which seeth in secret knoweth what things ye have need of," further emphasizes the relationship between God and Love casteth out fear-the fear man. of the omniscience, which keeps on record our virtues and vices, our good habits and our bad. Christ's fullest development of the First Commandment is, therefore, to be found in the protecting exclamation of any one tempted to do a wrong thing, "Thou God seest me."

Hints: A lesson on what has been called the greatest thing on earth, namely, love. Ye have heard it hath been said by them of old. But I say unto you. The contrast batween the old morality and the new. Chrut as our prophet-the prophet of the highest civilization, in which the religion of hate, revenge and the shedding of blood has no part.

Questions: What is a virtue? What is a habit? What is an instinct? What is a Christian principle? Name any virtue that is akin to piety. Name any vice that is akin to infidelity. What analogy is there between Mohammedanism and Christianity as religions? Wherein lies the great contrast? Would a Mohammedau suffer any one in his presence to make despiteful use of the name of the founder of his religion? Would a Mormon do so? How comes it then that the Christian religion is so often allowed to be despitefully spoken of in Christian communities? Why is Christ's name so often allowed to be used in the form of the vilest cursing in our streets? Is the Kingdom of Heaven a mere name? Is the Prophet, Priest and King of our religion a myth? Is our Father which art in Heaven not the only living and true God Who, through Moses, said: "Thou shalt have no other gods before me"? What is infidelity?

FEALTY-TREASON.

The loyalty of love is more of a virtue than the loyalty of fear. Fealty ful to or bring disgrace upon an earthly mandment. Treason is disloyalty, and parent and not consider his act a is still punishable by death, as are the meanness? Who would be guilty of greatest of crimes. The breaking of infidelity towards the King of Kings, the First Commandment may, thereworst offences a man can be guilty of.

EXERCISE II.

fore, be considered as one of the laws of the Kingdom of Heaven as laid down worst offences a man can be guilty of by our Saviour. Which of these laws was broken by Herod, Ananias, Judas, Peter and Elymas; by Caligula, Ethelred, Rufus, Guy Faux and Judge Jeffries. Give an event in Name any ten persons mentioned in history each of their lives to prove your statement. bebeaded for treason? What is the difference between fealty and loyalty? Give five of the laws by which our judges must abide in trying those who break them. Give five of the break one of God's laws? Give instances.

KNOWLEDGE AND HOW TO MAKE CHILDREN LOVE IT.

M. J. KELLY, M.D., LL.B., PUBLIC SCHOOL INSPECTOR.

knowledge, everywhere prevails. It without money or patronage, often knocks for admittance as loudly at the doomed to starve or steal. cottage as at the palace gate. The charge is old, too. peer and the peasant alike enjoy its overcrowding of the professions is readvantages and share in its rewards. ferred to by Thackeray in one of his If not more profound, it takes a wider books, and was ridiculed by him more range than it ever did before. In the than sixty years ago. For the diligent, courts of Mammon its aid is eagerly honorable and high-minded student and persistently invoked, and, there there is always room above, and to fore, the scientific side of it is espe- enable such a one to reach the goal is cially cultivated and encouraged. just what is needed in an educational Nearly all civilized nations vie with each other in extending its boundaries and increasing its money-making power. In its propagation millions are spent an-ually, as against thousands fifty years ago. It has become a State birth or learning. Yet these are among matter almost exclusively, its support and control being, in the main, under the direction and supervision of the State. Complaint is sometimes made that we have too much of it-that the masses are being over-educated-that aspirations are thus created which can seldom be realized, and that this tends to unrest, sometimes to crime. This is an old complaint, which applies only to inadequate or imperfect education, and justifies Pope's well known line :

"A little learning is a dangerous thing." It is further alleged that the professions are overcrowded, and that the most

In our day education, or rather, mechanic, are drawn thither, and, This The talk of the system. The great original geniuses of this world sprung mainly from the people; Homer, Virgil, Cervantes, Shakespeare, Milton, Burke, Burns, Moore, Faraday, Carlyle, can assert no claim to high the foremost names on the files of time. But how many others, now lying in neglected graves, over which rises "nor storied urn" nor "animated bust" if the needful help had come at the critical time, might have joined the ranks of the immortals-others whose hands under more favorable auspices

"The rod of empire might have swayed,

Or waked to ecstacy the living lyre."

Our great dramatist puts the matter well, "There is a tide in the affairs of men which, taken at the flood, leads on to fortune."

Happily in this "Canada of ours" promising of our boys, from the home the avenues of knowledge are open to on the farm and the cottage of the all. From the Kindergarten to the

University the way is clear, the ascent educational movements in this later comparatively easy. In the distance Victorian era has always been in the are fame and fortune. For each eager direction of the best results. aspirant "the shining throne is waiting" if he only has the industry, the energy the "Roman will" to climb and " take it."

But in ascending the Alps of knowledge, guides are still needed, and experienced ones, too, to prevent the unwary from slipping into pitfallsfingerposts at the cross roads, to save expedite time and the journey, modest, silent guides who are not constantly prating about their achievements—who know the safe passes and and inquire of themselves, with a treare content to lead their charges therein, who can discern the appositeness of the Poet's couplet and act upon it.

"Men should be taught as though you taught ther not.

And things unknown proposed as things forgot."

Now to create in our boys and girls the desire for knowledge, to direct their steps to the "Temple of Truth" I conceive to be the highest aim of all instruction. effectually and well in our Primary vent their venom against it in the pub-Schools, there are three things to be lic prints. It will probably survive notconsidered : (1) Our Methods, (2) Our withstanding. The fact is our Ontario Machinery, (3) Other means.

mastering of methods, in getting the device can be. All it needs is time to use of tools; and the fundamental settle and a fair trial. It furnishes to methods, the primordial tools, are the the youth of the Province an education venerable three R's-(a) Reading, the nearly free, it provides trained instrucknowledge of signs; (b) Writing, the torsfor all schools, and further for their m.king of signs and (c) Arithmetic, the foundation of measurements; the subjects on which these tools are to mental or moral, where nature has help us are just two, man and nature. The study of the first is literature, of erials—it cannot make ladies and the second science. He who under-jgentlemen, but it can, and no doubt stands the distinction and can properly apply the tools is in the way of becoming a safe guide.

(2) Our machinery is not so easily the school. disposed of. Many thoughtful and often get from other than purely scholaccomplished men have expressed astic sources. Shakespeare's descripdoubts as to whether the trend of tion of the "Schoolboy with satchel

The beacons that guided themselves safely into port have nearly all disappeared and they dreaded the perils that menace those who may follow them. They entertain gloomy views of the future and anticipate disaster, more the outcome, it may be, of brooding discontent than of sane reflection. These are pessimists, and pessimism is They note as old, at least, as Nestor. many changes, many innovations never dreamed of before in their philosophy. mor, "Whither are we drifting?"

To their assistance have recently come a couple of prominent bank managers, who have criticized adversely our School system of which they evidently know little, and declare that the lads who enter their service from the Schools have no adequate knowledge of even the three R's, and can neither read well, write well nor reckon well. But this is not so bad as the In order to do this army of anonymous scribblers who School system is about as well con-(1) Part of all education lies in the trived and as symmetrical as any human It cannot perform due supervision. miracles-it cannot ensure perfection, been niggardly in supplying the mat-¹oes, afford help. But before there were systems there were schools and the master was both the system and Knowledge of these we

on back and shining morning face) creeping unwillingly to school" presents a perfect picture. Equally true to nature is the gentle Goldsmith:

" Full well the boding tremblers learned to trace

The day's disasters in his morning face ; Full well they laughed with counterfeited glee At all his jokes, for many a joke had he."

A genuine Celtic scene-a glimpse of the border land between laughter and tears, a vision of roguish eyes and love of fun. But how quickly he changes :

"Yet was he kind, or, if severe in aught, The love he bore to learning was at fault.

Now, it seems to me, after many years' experience and some reading, that inspiring the young minds with this love of learning is not only the primary but the ultimate end of all instruction. Methods of teaching have their place and function; school books may be helps or hindrances, as they are wisely or unwisely employed; psychology, which should teach the normal evolution of the faculties of on the use that is made of them and children, means the attention of intel-, the character of the teachers in charge. ligent, indeed, of all teachers, but unless a love for the subjects taught is bred in the hearts of the young the How many bright introduced. work is in vain. youngsters in school and college have become disgusted with the whole pedagogic process, have treated the curri culum with contempt and wandered off into "suburban lanes forlorn": and of these not a few have achieved immortality. You cannot easily get a square peg into a round hole. More difficult still is it to run youthful minds through the same mould or machine with success. No two, probably, acquire knowledge in precisely the same way or by the same devices. The skilful and prescient teacher, when he finds a pupil. unaided, on the right road, withholds assistance and advice, preferring to en courage independent thought and ac-

laggard, the dull, the defective members of his class. Such a one is sure to reap his reward, if not in "filthy lucre," at least in an approving conscience and the gratitude of his pupils. The question, then, is how can we beget in our young people this desirable love of knowledge?

(1) First and chiefly, I answer by loving it ourselves. No teacher, who does not love learning himself, can hope to make his pupils love it. If the matter of salary is the be-all and end all of his labors, then his work will be comparatively fruitless. But if he is fond of learning there is no limit to his usefulness, no end to his beneficent influence.

(2) In the second place by the establishment and keeping up of good School Libraries. This was one of the first things to which I directed my attention in 1871. But I need not dilate on this topic. Everyone knows that good libraries make their possessors "the heirs of all the ages." Their value, will, of course, depend largely

(3) The Kindergarten is of great value in the early stages of school work, but we cannot hope to see it generally

Knowledge, we know, precedes wisdom, just as the sap precedes the sugar, which is its essence. This fact has been noticed by the dead Laureate, who early made a profound study of life and its environment.

" Knowledge comes, but wisdom lingers, and he bears a laden breast

Full of sad experience, moving towards the stillness of his rest."

This short and imperfect piper cannot be better concluded than by a stanza from the same poet :

" Make knowledge circle with the winds ; But let her herald, Reverence, fly Before her to whatever sky tion. His attention is given to the Bear seed of men and growth of minds."

THE CANADIAN PEOPLE.

A Criticism of Some of their Social Peculiarities.

NORMAN PATTERSON.

dian people believe themselves quite to help the poor," in London, to seek the equal of those of the United a position. She was asked her name, States and of Great Britain, and more | address, age, number of children and vathan the equal of those of any other country on the face of the globe, and justly so. Some of the best blood of the British race flows in our veins; and our system of government, our social organization and our social habits are of a standard which is scarcely equalled in any country in the world. But the Canadian people are peculiar, and it is to some of these peculiarities I wish to draw attention, for as Principal Grant has well said, "The destiny of a country depends not on its material resources; it depends on the charter of its people."

RELIGIOUS PECULIARITIES.

The Canadian people are religious and generous. They contribute liberally to the building of churches. In Quebec, the churches usually cost as much as all the other buildings in the town or village combined. . In the other provinces, the people are not quite so extravagant, but the churches are numerous and creditable. In every part of Canada the preachers are well paid and highly respected. The people give generously to foreign missions, thousands of dollars being sent each year to Africa, India and China. Yet on the street corners of any Canadian city you may see a blind man begging, a one-legged patient individual with his crutch and tin cup, or a wrinkled old woman turning a wheezy hand-organ. streets are regularly patrolled by rag-laws regulating commerce, and honorged, worn-out females, soliciting coppers or selling bone collar-buttons. Nevertheless ninety per cent. of the Ian Maclaren tells the story of a woman discussions in parliament pertain to

There is no doubt that the Cana-| who went to the meeting of a "society rious other particulars. She was then asked to pay a shilling for registration, and a situation would be hunted up for her. Poor woman, she had no shilling and could not secure help. We have the same spirit in Canada. We build large buildings to accommodate unfortunates and name these edifices after the men who donate the most money. But we initiate no system which will seek out the dying and the unfortunate, no system which will permanently rescue the fallen, no plan whereby the aged and the needy will be able to live without begging. A man will subscribe-with a flourish -a thousand dollars to foreign missions, and on the same day he will dismiss a man ten years in his employ, who has been earning but twelve dollars a week, without a thought as to how this man is to support his wife and five children. Truly we are a peculiar people.

THE SPOILS SYSTEM.

Canadians claim to follow the rule, "the greatest good for the greatest number," and much of our legislation embodies that principle. We have excellent educational systems in the various provinces; not as well administered as they should be, but still doing a great deal for the common people. We have a splendid criminal code for the punishment of all crimes, The business except political crimes; we have good able judges to administer these laws. good of the party which is considered, and not the good of the country. During its eighteen years in power. the Conservative Party filled all senatorial, civil service and judicial vacancies with men to whom the party was "under obligation," men of its own political stripe; and its whole aim during that period was to so arrange and compromise everything that it might retain power. The Liberal Party has had control just three years, but it has clearly shown that it is de termined to give Conservatives a dose of their own medicine. Unnecessary bonuses, suspicious deals, surrenders to selfish capitalists, appointments, of self-seeking politicians to important administrative positions, a ceaseless pandering to the desires of districts where the party wishes to strengthen its hold—there are the marks which show the Liberal party to be as careless of the general good as were its Mark vou, I do not predecessors. mean that the Liberal Government has done no commendable actions. There are a few moves here and there which reflect credit upon them; but the balance is on the side of "power-seeking," not "general good.

LACK OF IDEAL CITIZENSHIP.

But another peculiarity of the Canadian people is that while essentially moral, they are encouraging political immorality. A citizen very seldom think; of doing an evening's work on the voters' list, of assisting to organize the vote of his division, or of doing a day's scrutineering on behalf of a prospective alderman or a member of Parliament without pay from the candi-The word citizen conveys no date. responsibilities to the mind of the He sees no duty ordinary voter. which he owes to the state. He owes his party a vote whenever called upon ; and the party owes him a day's pay

subjects other than these. It is the and again if he has "influence," or makes an occasional contribution for the good of the cause. The average earnest and thoughtful citizen rests at home in the bosom of his family. while his unthinking, less moral brother does the political work necessarv in Canada to the making and unmaking of governments. We are all Canadians, but we often pay more attention to down trodden Cuba or benighted China than we do to the country which gives us a name and a home. Because our duty to the state rests lightly upon us, our larger municipalities are in the hands of men of broad easy morals; our politics are controlled by small-minded self-seeking men who do not hesitate to bribe constituencies or to barter franchises. In neither provincial nor federal politics, does the average voter rise above party considerations when, with uncovered head, he approaches the ballot-box.

LACK OF FINER MORAL SENSE.

Nor are our women possessed of the highest moral sense. For example, one day, as I was riding home in a street car, a well-dressed lady and her The lady daughter came aboard. took out two yellow tickets and held them in her hand. The conductor passed her and repassed her. She didn't offer the tickets, and he didn't ask for them. As she got up to go out she smiled significantly at her daughter, replaced the two tickets in her purse, and gathering her magnificent skirt in one hand and her goldhandled umbrella in the other rustled her skirts through the aisle and down the steps.

If, in a store, a woman gets five cents more change than she should, why, it is a small thing, and she smiles complacently. If the clerk cuts her off half a yard more than he should. why that is her luck. No large drygoods store in Canada can get along when he earns it, and a small job now without private detectives-and the persons they watch are not the the pages of some nobleman's latest need7.

In her dealings with the prospective husbands of her daughters, a Canadian mother, especially a city mother, does not always insist on morality. She desires wealth and social position. The young man's moral nature may be utterly depraved, and his offspring sure to be tainted with moral weaknesses—but the mother accepts him if he has an income. She seldom considers possibilities, but always present Truly our mothers are conditions. lovable and worthy of all houor and admiration—but they are fond of the rustle of silks. They spend two thousand a year with scarcely a thought of their sisters who have but two hundred. To make their husbands M.P.'s they would sacrifice much; to bear the title "Lady" they would almost sacrifice honor itself.

PRINCES OF COMPROMISERS.

Walking along street with a young clergyman the other day, I was startled by the remark: "Our ministers do not need to compromise so much ! They think they do, but they don't." That word compromise ! Would that it were banished from the religious world, from our political life and from even our business life! There is too much compromise altogether. It has its basis in politeness, but the necessity does not justify one half of what exists. We compromise with evils and immoralities until they eat us up. And the princes of compromisers are the sleek, self-admiring, oratorical ministers of the gospel. These epithets exclude a number of my best friends, men who in a small but honest way are pursuing the prize of a high calling. The compromisers are the men who do not preach morals, but whose complex morality is printed on pages of eloquence and bound in pliable smiles, and whose sermons are literary essays fit to adorn

magazine.

STEALING MILLIONS.

If a city minister were to condemn stock gambling, political corruption, and the dozen other shady methods by which people amass large fortunes in a few years at the expense of their fellow-men, that pulpit would be vacant. Of course it never occurs to the minister to let it be vacant. So the immorality remains. A man respects another's property unless he can get it under cover of the law. For example, he may form a mining company and sell his "promoter's" stock at ten, fifteen or twenty cents on the dollar. That is called "able financing," and the more worthless the claim, the more able the financing and the more praise the man receives. The trusting but ill-informed public is never praised—not even pitied.

Or he may desire to build a railway. The cost will be \$8,000 per mile, and it may be bonded for, say, \$4,000; leaving a net investment of \$4,000 per mile of road. He goes to the Dominion Government and gets a grant through the influence of paid lobby-He then visits the Provincial ists. Government with the seal of federal approval. He gets another grant. Then he repairs to the municipalities. Altogether he gets \$12,000 a mile. As the net investment is \$4,000, the profit is \$8,000. On a hundred miles there will be enough to give him a fair claim to the tille of "millionaire." It is by just such means as these that most of the rich men of Canada have been made.

There are those who have made their money by hard work and persistent saving, but they are not quite so numerous, and they are never so prominent. It is a common occurrence to hear men remark over their pipes and whisky-men of the world who know-that to get rich to-day, a man must have neither heart nor con-, selfish type. To the citizen our poet science. I have heard half a dozen Kernigan cries : wealthy men give utterance to such sentiments.

"'Tis true, 'tis pity; and pity 'tis, 'tis true."

OUR YOUNG MEN.

But why go on in this somewhat doletul strain? The answer is another Why does the bird sing? question, It is given to certain men to preach the gospel of regeneration to their fellow-men, when inclination meets opportunity. Canada would not be wholly had if all the preachers and teachers and writers were banished. But she is the better of those she possesses-most of them. To write something which would give one young man a broader view of citizenship is a reward sufficient for any would-be teacher. To make a dozen young men THINK would be glory and honor.

For, after all, it is the young men in whom lies the hope of Canada's future greatness. There is always hope because there are always young men. Many of these will follow precedent, but a few will not. If the few are too few, our politics and our social life will become no better; but they will not degenerate greatly.

The young man who studies nothing but John Bunyan and the Bible may go to Heaven, but he certainly will not prepared for it. If we are to become make the world much better for his a part of the greater Anglo-Saxon having sojourned here. when citizens are required—citizens with a broad, understanding knowledge of what Canada was, is, and might be; Canada's greater sons we should be citizens who will inquire as to what prepared for it. If we are to build up Canada requires of her sons; citizens who will study the history, the institutions, the literature, the political conditions of their native land. The man breed and bring forth citizens whose who exclusively pursues his own ends, his own purposes, and the almighty lars. If this is the destiny of Canada's dollar is not a citizen. A citizen is a sons, let them anoint themselves with man of a higher, a nobler, a more un- | wisdom.-The Canadian Magazine.

"Shall the mothers that love us, bow the head.

And blush for degenerate sons?

Are the patriot fires gone out and dead? Oh, brothers, stand to your guns !"

and Roberts also:

- "Awake, my country, the hour of dreams is done !
- Doubt not, nor dread the greatness of thy fate.
- Tho' faint souls fear the keen, confronting sun,
 - And fain would bid the morn of splendor wait ;
- Tho' dreamers, rapt in starry visions, cry,
- 'Lo, yon thy future, yon thy faith, thy fame !'
- And stretch vain hands to stars; thy fame is nigh,
 - Here in Canadian hearth and home, and name."

We may have telephones and electric railways, Pacific cables, fast Atlantic steamboats, miles of canals, hundreds of cabinet ministers, scores of companions, knights and baronets; but if we have not a patriotic citizenship we shall not last. Commerce alone never made a nation great.

THE DIM FUTURE.

It is becoming clearer that if Great Britain is to maintain her supremacy among the nations she will have to be regenerated from the fresher blood of the colonies. If this is the destiny of Canada's greater sons, we should be This is a day unity, the northmen will be needed to reorganize and purify the body politic of the south. If this is the destiny of on the northern half of this continent a new Britain, with the maple leaf flag proudly floating above it, we must excellence cannot be measured in dol

TRANSFORMED AFRICA.

MRS. FREDERIC R. HONEY.

country will show that its development is closely connected with its natural physical conditions, its position, and its configuration-in short, with its geography. And a glance at the geography of Africa, as revealed by modern explorers, explains the surprising fact that the interior of this great continent, lying in the pathway of ocean travel and within sight of Europe, should have remained a sealed book until the nineteenth century had left youth behind. Egypt, it is true, was in the forefront of an-ient civilization, and northern Africa shared in the vicissitudes of early European history as a part of the European system, washed as it is by the waters of the Mediterranean, the "Great Sea," once the highway of commerce for the civilized world. But Egypt is only a narrow helt, intersected by the Nile; and northern Africa was cut off, as it is today, for all practical purposes, from the rest of the continent by the impassable barrier of the Sahara.

Elsewhere than in the north. African geography is peculiar, and of a character calculated to discourage the explorer who seeks new lands for settlement hy civilized men. It is estimated that a full half of the continent is occupied by deserts, and by infertile lands approximating to the desert character. Around the coasts, where good harbors are few and far between, lies a belt of lowland from 100 to 300 miles in width, where malarial fevers of all kinds prevail; in some parts the white man is a sure prey to tropical disease. From this low belt the land rises steeply in a succession of terraces to the central plateau, which in the south and east attains a great elevation; far less than that of central Asia, but quite purposes. The day may come when high enough to be a hindrance to the these countries will give a better ac-

The study of the history of any migration of newcomers, which naturally iollows the lines of least resistance. In most regions of the world the rivers form natural highways by which a country can be entered and explored ; but African rivers are rendered impassable by rapids as they descend from the elevated plateau to the lowlands of the coast. What wonder, then, that the traveler who found himself barred from access to the interior, turned his back on Africa and sought more hospitable lands?

> The configuration of Africa is thus the key to its history; for the inaccessibility of its highlands and its unhealthy coast, combined with its tropical situation, have contributed to the late settlement of European colonists. But these obstacles are no longer effectual hindrances; and under the impetus of a need for colonial expansion on the one hand, and of political rivalry on the other, European influences have now taken firm root.

> Our maps show that seven Europeans Powers have claimed a share in Africa; but, for the present, little interest attaches to five of these. Germany's occupation is very recent, and has been attended by no striking incidents; while Spain and Italy, in their small coastal territories, chiefly lowland, are inert and unprogressive. Portugal has a long coast line, but she has neither the wealth nor (apparently) the energy necessary for the development of the healthier "hinterland" in which colonies might be plantednotwithstanding the hopeful and ambitious utterances of her statesmen respecting the future. Her ports of Beira and Delagoa Bay, on the east coast, are mainly used by foreign nations for their own commercial

count of their stewardship; if they boundaries skirt the western shores of fail to do this, their inheritance will Nyassa, one of the lakes which form so probably be absorbed by those who remarkable a feature of East Africa, prove themselves more capable admin- and touch the southern point of the istrators. The Congo State, under long, narrow Lake Tanganyika, on Belgian control, occupies the fertile which navigation is free to all nations. basin of the second largest river system Two Lundred miles beyond the northin the world, once the bed of an ern point of this lake lies Uganda, a inland sea. It is still in the initial district of British East Africa, borderstages of development, but steady ing on the great Victoria Nyanza, the progress may be expected, now that a source of the White Nile and second railway has connected the coastal low- only to Lake Superior among inland lands with the Congo River above the fresh water seas. Thence along the rapids which render it unnavigable as Nile the British power predominates it descends from the interior placeau without interruption through the Souto the Atlantic through a channel from dan, the scene of Lord Kitchener's four to eight miles in width. The recent overthrow of the Dervish forces, future of the Congo State may be great, and through Egypt, which is virtually but for the present the British and under a British protectorate. French possessions are of more general A British railway "from Cairo to interest.

mainly in South and East Africa, and fancy, conceived in the brain of an includes the greater portion of the enthusiast. Large sections of such a subtropical lands which are favorably railway, however, already exist in North situated for European settlement. It and South Africa, and a space of only is fortunate for Great Britain that her 500 miles in the centre of the continent occupation began thus at the south, separates the British territories in which whence the natural line of expansion it can be constructed when commercial was along the elevated axis of the con-necessities or the protection of the tinent, whose general direction is north- country demand it. The surface of east, towards the shores of the Red this wide belt of land varies greatly. Sea. colony at the Cape of Good Hope, and west, infertile land, where cattle which was ceded by the Dutch in raising is the only profitable agricultural 1814, her boundaries gradually extend- industry, mining districts awaiting deed by ordinary processes of growth, velopment, the famous diamond fields including Natal and Zululand on the of Kimberley, lowlands in river basins coast, and Bechuanaland on the north. and on the coast, where the prolific The sudden appearance of Germany soil breeds malarial disease, but the on the stage of African affairs in 1884 greater portion, south of the Soudan, hastened the apportionment of such is on a plateau of moderate elevation, parts of the continent as were not sufficiently watered, where the climate already under European influence, and permits white races to make a perma-Great Britain's African frontier was nent home and produce the necessaries pushed rapidly forward. Although the of life. great acquisition, known as Rhodesia or Charterland, has only recently come ments in West Africa. These lie in under her flag, a railway already pene the basin of the river Niger, where the trates many miles into the heart of the climate is tropical, and the elevation country, which five years ago was above the sea is comparatively low. under the rule of barbarous tribes. Its This region has so often proved fatal

the Cape" was regarded not long ago The sphere of Great Britain lies by sensible people as an extravagant Commencing with a modest. There are desert spaces in the south

Quite different are the British settle-

to Europeans that it has earned the oases are cultivated, and are even name of "The White Man's Grave." created by boring for water, which is Yet here are offi als, traders, and mis- generally found near the surface, by sionaries; and so important are the planting palm trees, and by encouragcommercial possibilities of the counting vegetation. Yet France has no try that Great Britain and France hold surplus population to provide for, and firmly to the shares which each has the most ardent colonizers could not respectively acquired, and Germany settle in such a region of tropical heat has claimed and secured a section for and aridity. A few roving explorers, future development.

of Africa, where, beyond the coastal tion of the quarter of Africa over which region of Senegal, the fertile and pupu the tricolor floats, except in the marilous basin of the upper Niger, and the time provinces of Algeria and Tunis. province known as the French Congo, The degree of authority exercised her power predominates over two mil over these vast European possessions lion square miles of-sand and desert. differs as much as does the character Algeriz, on the Mediterranean coast, of the soil. There are regularly organ-was won by forty years of fighting with ized colonies with representative gov-Arab tribes, and has now an orderly ernments, there are crown colonies, government; but, notwithstanding the with a less degree of independence, beauty and charm of the maritime there are chartered companies, which portion, the desert character of the are in fact colonies in process of for-"hinterland" forbids profitable expan-mation, there are protectorates, milision. fitter for settlement by Europeans, are of influence", and the administration the French successful colonizers. Their of law and justice varies in each of brilliant imagination, enterprise, and these. In forming a judgment of their courage fit them better for conquest internal condition and management, than for commerce or colonization, as they should not be compared with is demonstrated by the history of the countries inhabited for generations by past. and dream of future control of the traditionary and hereditary, but with northern half of the continent, from the state of things which existed in Senegal to the Red Sea, including the Africa fifty years ago. And it shou d hasin of Lake Chad at the south of the be remembered that the whiles are as deser and the upper part of the Nile yet but a small minority of the popuvalley. for moderating the climate of the waste, Rough and ready as the methods of region, and for promoting commerce administration may be in districts by providing it with water communi- where white men are still pioneers, the rations. bed of a salt lake, and it is proposed and civilization demand that it should to re-open the connections with the he-is incomparably higher than the Mediterranean which nature has grad-tyranny of force exercised by the native vally closed, and thus transform a part tribes when their power was unbroken. of the desert into an arm or inlet of No less a result could justify the exthe sea. This sounds chimerical, but periments which are now being tried what may not the twentieth century on so large a scale and with such keen see? Meanwhile, with praise worthy skill competition by European nations in and industry, efforts are being made to Africa.—Mechanics' Arts Magazine. redeem in part the desert barrenness;

and the necessary military and civil The French sphere lies in the north officials, constitute the white popula-

Nor, even were the country tary ports, native states, and "spheres They are enthusiastic explorers, races with whom law and order are Suggestions have been made lation, even in the older settlements. The Sahara was once the standard of justice-as Christianity

THE PEDAGOGIC VALUE OF THE HISTORY OF PHYSICS.*

FLORIAN CAJORI, Colorado College.

accord both in mode and arrangement with the education of mankind as considered historically; or, in other words, the genesis of knowledge in the individual must follow the same course as the genesis of knowledge in the race." Such has been the teaching of theorists like Comte and Spencer; such has been the conviction of teachers like Pestalozzi and Froebel. This doctrine is far from self-evident, but if it applies to physics, then certainly the history of the science should receive greater attention.

Professor Ostwald of the University of Leipzig, the editor of the Classics of the Exact Sciences, emphasizes the importance of the history of science as follows: "While . . . the knowledge of science as it now exists is being imparted successfully, eminent and farsighted men have repeatedly been forced to point out a deficiency which too often attaches to the present scientific education of our younger talent. It is the absence of the historical sense and the want of familiarity with the great researches upon which the edifice of science rests."

Thus great writer; on the philosophy of education as well as eminent scientific investigators have, in a general way, pointed out the value of a know ledge of the progress of science. The practical teacher will ask himself the practical question, exactly in what way will a knowledge of the history of physics aid in elementary teaching ?

In the first place, a knowledge of the struggles which original investiga tors have undergone leads the teacher to a deeper appreciation of the difficulties which pupils encounter. The differ-

"The education of the child must | ence between mass and weight is a stumbling block to beginners, and the instructor's patience is often taxed to the u.most. The great originators of mechanics-Galileo, Descartes, Leibnitz, Huygens-had no clear notion of mass. Weight and mass were taken interchangeably : the two terms meant one and the same thing. That there is a distinction between the two began to dawn upon the minds when it was discovered that the same body may receive different accelerations by gra vity on different parts of the earth's surface. When Jean Richer in 1671 went from Paris to Cayenne in French Guiana to make astronomical observations, he found that his pendulum clock, which in Paris kept correct time, fell daily two and one half minutes behind mean solar time. It was shortened, but after his return to Paris it had to be let out again. The distinction between mass and weight was clearly perceived by Newton in his extension of the laws of dynamics to heavenly bodies.¹ On the same spot of the earth mass and weight are proportional to each other. This is not a self-evident fact; Newton proved it in course of a splendid series of tests on the pendulum. He says in his Principia (Book II, Prop. XXIV, Col. 7) " By experiments made with the greatest accuracy I have always found the quantity of matter in bodies to be proportional to their weight."

> That the difficulties which students encounter are often real difficulties such as the builders of the science succeeded in overcoming only after prolonged thought and discussion can be exemplified in many ways. Take the laws of motion, the true nature of

^{*} Read before the Colorado Science Teachers' Association, May 7, 1898.

¹ MACH, Science of Mechanics, transl. by T. J. McCormack, 1893, pp. 161, 251.

"centrifugal force," the difference be [then drop them together, he could tween force and energy, the explan ation of the "force of suction," the difference between electric and magnetic phenomena, where is the teacher who, by a knowledge of the struggles undergone by the master minds, will not be impressed by a deeper sympathy with students who encounter "hard points" and are at first unable to master them? More than this, the way original thinkers leveled the barriers often suggests to the teacher good methods for removing those of the pupil. The pendulum at Cayenne was acted upon by forces to a less degree than at Paris, yet its mass was the same in both places; the mass was the same, but the weight was different.

While to the instructor the history of science teaches patience, to the pupil it shows the necessity of persistent effort. Newton began to think of gravitation in 1666, but that coquettish maiden, the law of inverse squares, long eluded him. Jacob waited for Rachel twice seven years; Newton waited for his Rachel nearly thrice seven vears.

A third lesson to be drawn from historical study is the necessity of checking speculation and correcting our judg ment by continnal appeal to the facts, as or Newton. determined by experiment. This lesson a young girl first entering the labor-a young girl first entering the labor-a tarbies Leclanché cell. Let not to re-discover the labor atory should be made to re-discover the labor atory should be made the teacher attribute such preconceiv ever a teacher undertakes an impos-ed notions to stupidity. Able minds sible task, it is he who expects to bring have made just such mistakes. The his pupils to the point where they, in great logician, Aristotle, walking up and down the paths near his school in Athens, came to the conclusion through some involved process of aunited strength, have thought out riori reasoning that bodies fall quicker only after a lifetime given to scientific in exact proportion to their weight.¹ work. In impracticability this Utopian n exact proportion to their weight.¹ work. In impracticability this Utopian If it had only occurred to him to pick scheme surpasses all others. Sir p two stones of unequal mass, and Thomas More was outclassed by him 1 De Coelo, Book III., chap. 2.

easily have seen that the one of, say ten times the mass did not descend ten times faster. The experiment was omitted, and Aristotle never found out his error. Nor did the readers of his books for two thousand years, until finally Galileo ascended the leaning tower of Pisa and dropped iron balls of different weights to show that a light ball will fall with the same velocity as a heavy ball.

Another conspicuous instance of a great man whose judgment was un trained by habitual appeal to the facts was Descartes. When the Copernican theory was under discussion it was claimed by many that, if the earth rotates and bullets are fired vertically upward, they must strike the ground far to the westward. Mersenne and Petit in France tried the experiment. But they were perplexed by an unexpected occurrence. They could not find their bullets at all! Descartes, the great French oracle of the time, was consulted, and he seriously replied that the bullets had received such intense velocity that they lost their weight and flew away from the earth. Such an absurd reply could never have come from experimenters like Galileo

Another point which I desire to who originated this pedagogical theory.

Can we expect our students to dis- they might, but only by chance. cover the law of refraction, *i.e.*, the law that the ratio of sin i and sin r is constant? To be sure, we may let the student measure the angles of incidence and refraction and he will. perhaps, obtain the following data:

Angle of incidence : 0°, 12°, 20°, 40°, 60°, 70°.

281/2°, 41°, 45°.

From the first three pairs, says Dr. Recknagel in the Zeitschrift t. Math. Unterricht, the pupil might infer that the index is 4.3 and is simply the ratio of the angles. But the last three pairs of angles show that the guess is wrong. However, "the right law is soon drawn out by questioning " (herausgefragt). No doubt it can, if leading questions are put, but usually in no other way. Let not the teacher be misled into the belief that by leading questions put to his pupils, he has gotten them actually to discover the law for themselves ; they have merely taken the hint given them ; they have verified the law, but not *"iscovered* it. We are not cr ticising the mode of procedure pointed out by Dr. Recknagel, but we object to the conclusion that the pupil has been led to make a discovery. History teaches us that four great scientists, whose mirds had been richly endowed by nature and trained by years of scientific effort, endeavored to discover the law of refraction and *failed*. Ptolemy, one of the two greatest astronomers of antiquity, Al Hazen, the greatest Arabic physicist, Witelio, a prominent writer of the thirteenth century and Kepler, the discoverer of "Kepler's Laws," vainly tried to establish the exact mathematical relation between the angles of incidence and ot refraction. Can, therefore, youths with untrained minds accomplish on the spur against such a condition of things of the moment what Ptolemy, Al must be hailed with joy. Of course, Hazen, Witelio, and Kepler could not as Rowland says, "Some are born do after years of study? By chance blind to the beauties of the world

As a rule, the theory that the pupil should be made to re-discover the laws of nature leads either to failure or to deception. With even the brightest and maturest minds, discovery is largely a matter of accident. The history of science clearly proves this. The great Huygens recognized this when he said that Angle of refraction . o°, 9°, 15°, a man capable of inventing the telescope by mere thinking and application of geometrical principles, without the concurrence of accident, would have been gifted with superhuman genius. In the school-room we cannot wait for such accident, though we should try to profit by it, if it does come.

I have pointed out how the history of physics disproves a certain pedagogical theory, how it shows the desirability of holding speculation in check by experimentation, how it emphasizes the necessity of patience on part of the teacher and perseverance on part of the student. I might have spoken of the great liberalizing effect of the view which it affords of the development of the human intellect. But with the practical teacher all these considerations dwindle into insignificance as compared with the aid to be derived from history as a stimulant, as a means of exciting interest. If a teacher creates a living interest in a subject, all other difficulties vanish. Before the introduction of the modern physical laboratory, physics wes almost always a subject disliked by students. Even now it is not always popular. The number of students electing laboratory work at the University of Cambridge under James Clerk Maxwell was always small, Ritchie at the London University had comparatively few students. But in Paris had often not above half a dozen. Any remedy

around them, some have their tastes finger. This criticism incited Boyle to better developed in other directions, and some have minds incapable of discovery of his law. ever understanding the simplest natural phenomenon; but there is also a the confidence of the historian and large class of students who have laugh with him at the undignified at least ordinary tastes for scientific pursuits." Students of the last class may be drawn closer to physics by good laboratory courses and by an means of iron wires . . . between acquaintance with the great minds who every two," and then Louis XV. caused developed the science.

Of course, historical matter is not to replace laboratory practice, or the dis- to them. The whole company of cussion of theory; nor do I mean that elementary classes, whose time for the study of physics is already too sented a sight decidedly ludicrovs. limited, shall be burdened with a long and systematic course on t' history of physics. Introduce historical matter incidentally and skilfully, and you will find it to be the honey which renders the bread and butter more palatable. Where is the student of physics who will not the fascinated by the experiments on air-pressure by Otto von Guericke and the illustrations light into the darkened room through accompanying the text? Here is a a small circular hole, passed it through picture of fifty men pulling by ropes a prism, and then be old the display enu vainly struggling to overcome the of colors on the wall. "Comparing atmospheric pressure against one pis- the length of this colored spectrum ton. There is an engraving representing eight pairs of horses, four found it about five times greater; a pairs on each side, pulling for all they are worth to separate two huge Magdeburg hemispheres. It is of interest to know that Kobert Boyle would prob- might proceed." ably not have discovered the law bearing his name except for an absurd criticism made on some of his earlier researches by a would-be physicist. Linus, professor at Luttich in Netherlands, declared that the air is very hypotheses, only to find that each was insufficient to perform such great mat- disproved by the facts. One of these ters as the holding up of a mercury guesses is of particular interest, as it column twenty-nine inches high; he shows that Newton's profound mind claimed to have found that the mer- had dwelt upon a subject prominent cury hangs by invisible threads (funi- in modern athletics, namely, the subculi) from the upper end of the tube ject of "curved pitching." Surely the and to have felt them when he closed modern student would find it hard to the upper end of the tube with his 1 Phil. Trans. Abr., Vol. I. 7 128.

renewed research and led him to the

Again, let the student be drawn into behavior of the Carthusian monks. In Paris a large number of them were formed into a line 900 feet long, " by an electric shock from the newly invented Levden jars to be administered austere monks, at the same instant of time, gave a sudden spring, and pre-

Quaint theories and hypotheses, now long forgotten, often possess peculiar charm. When the pupil has acquired some knowledge of the spectrum, con he fail to be interested in some of the speculations of Newton? How Newton carried on his experiments, not in a public laboratory, but at his chamber in Cambridge; how he introduced with its breadth", says Newton, "I disproportion so extravagant that it excited me to a more than ordinary curiosity of examining from whence it

Newton showed that this phenomenon was due to the fact that some rays are more refrangible than others, but before he hit upon the right explanation he advanced several line." Newton's idea was that the transmitted to the pupil. little particles supposed to constitute around more than others. up the red rays.

of this sort? So far as I know, the spell. testimony of teachers who have tried

guers what possible relation might be) it is unanimous. The pupil begins to supposed to exist between the perfor- feel that he has a personal acquaintmance of a twirler on the diamond and ance with the great men of science. optical theories. Newton said, "Then He is charmed with reminiscences I began to suspect whether the rays, about them, with their hopes, struggles, after their trajection through the disappointments. They appear to him prism, did not move in curve lines, no longer as irresistible, superhuman and, according to their more or less heroes, but as human beings, liable to curvity, tend to divers parts of the perplexity and failure. During this wall, and it increased my suspicion historical reading the pupil uncon-when I remembered that I had often sciously acquires a greater mastery of seen a tennis ball, struck with an the subject itself. Not infrequently oblique racket, describe such a curve the enthusiasm of the investigator is

Plutarch tells us that Archimedes light received a circular motion in was continually accompanied by an passing through the prism, and, meet- invisible siren whose bewitching music ing resistance in the ether, would caused him to forget the troublesome curve around during their passage from affairs of life, and inspired him for the the prism to the wali. Some particles study of great themes and the discovreceive a greater rotation and curve ery of truth. The same siren melodies Those have charmed Galileo, Newton, Fresbending around farthest constitute the nel, Helmhotz. Let our pupils get violet rays; those deviated least make closer to these master-minds, and they, too, though only feebly, perhaps, may

Will students be interested in details be brought under the enchanting

-The School Review.

A PSYCHOLOGICAL AND ANTHROPOMETRICAL STUDY.

ARTHUR MACDONALD, WASHINGTON, D.C.

been made the teachers were requested to mark the pupils bright, dull, or averaging in general, and also to mark them in those special studies in which they were bright, dull, or average; and when in doubt to mark them average, so that there might be less liability to error.

It may be objected that the teachers would tend to select the bright rather than the dull. After careful enquiry, we do not think this was the fact.

A resumé of measurements of Washington children, and of measurements of children in Europe. By Arthur MacDonald, Specialist in the United States Bureau of Education at Washington, D C.

After the measurements had al! But admitting it for the s2ke of argument, the teachers then might place more of the dull than of the bright under the head of average. But even in this case our main purpose would be served, which is to compare the bright and dull.

We give below the conclusions from our investigations of the Washington school children:

CONCLUSIONS AS TO 1,074 CHILDREN SPECIALLY STUDIED.

1. Dolichocephaly, or long-headedness, increases in children as ability decreases. A high percentage of comitant of mental dulness.

2. Children are more sensitive to locality and heat on the skin before puberty than after.

3. Boys are less sensitive to locality and more sensitive to heat than girls.

4. Children of the non-laboring classes are more sensitive to locality and heat than children of the laboring classes.

5. Colored children are much more sensitive to heat than white children. This probably means that their power of discrimination is much better, and not that they suffer more from heat.

CONCLUSIONS AS TO ALL THE SCHOOL CHILDREN.

As circumference of head increases mental ability increases. (1.)

7. Children of the non-laboring classes have a larger circumference of head than children of the laboring classes.

8. The head circumference of boys is larger than that of girls, but in colored children the girls slightly excel the boys in circumference of head.

9. Colored girls have larger circumference of head at all ages than white girls.

10. An important fact already discovered by others is that for a certain period of time before and after puberty girls are taller and heavier than boys, but at no other time.

11. White children not only have a greater standing height than colored children, but their sitting height is still greater; yet colored children have a greater weight than white children that is, white children, relatively to their height, are longer bodied than colored children

12. Bright boys are in general taller and heavier than dull boys. This confirms the results of Porter.

13. While the bright colored boys (1.) It being understood that the race is the same.

dolichocephaly seems to be a con-lexcel the dull colored boys in height, the dull excel the bright in sitting height. This seems to indicate a relation or concomitancy of dulness and long-bodiedness for colored boys.

14. The pubertal period of superiority of girls in height, sitting height, and weight is nearly a year longer in the laboring classes than in the nonlaboring classes.

15. Children of the non-laboring classes have, in general, greater height, sitting height, and weight than children of the laboring classes. This confirms the results of investigations by Roberts, Baxter, and Bowditch.

16. Girls are superior to boys in conclusion their studies (but see 10).

17. Children of the non-laboring classes show greater ability in their studies than children of the laboring This confirms the results of classes. others.

18. Mixture of nationalities seems to be unfavorable to the development of mental ability.

19. Girls show higher percentages of average ability in their studies than boys, and therefore less variability. This is interpreted by some to be a defect from an evolutionary point of view, but see conclusion 16.

20. As age increases brightness decreases in most studies, but dulness increases except in drawing, manual labor, and penmanship; that is, in the more mechanical studies.

21. In colored children brightness increases with age, the reverse of what is true in white children.

CONCLUSIONS AS TO CHILDREN WITH ABNORMALITIES.

22. Boys of the non-laboring classes show a much higher percentage of sickliness than boys of the laboring classes.

23. Defects of speech are much more frequent in boys than in girls.

24. Boys show a much greater per-

centage of unruliness and laziness than [in general. girls.

25. The dull boys have the highest per cent. of unruliness.

most frequent at dentition puberty.

inferior in height, sitting height, weight, lished by the U.S. Bureau of Eduand circumference of head to children cation.

There were measured 20,000 children in all. For tables of measurements, for diagrams and other data, 26. Abnormalities in children are upon which the above conclusions are and based, the reader is referred to a work (by the writer) entitled "Experimental 27. Children with abnormalities are Study of Children," which will be pub-

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."

that Professor Clark, one of our valued of the Royal Society of Canada. Professor Clark belongs to a succession of eminent men, .. mong whom are numbered Sir W. Dawson, Principal Grant, Sir John Bourinot, Premier Marchand and Mr. Keefer, and is the first Anglican clergyman who has attained to this distinction.

The usual periodical revision of the curriculum of the University of Toronto, not for youths and maidens; this has been made by the Senate, and the course of studies for the next five years at the Provincial University is now published. The part which concerns the secondary schools is that portion of the curriculum bearing upon the Matriculation examination.

School-masters generally, we have very good reason to believe, will be Schools. Apparently, the intention of pleased to see that there is in t' a new the Senate is to revert to the practice curriculum : distinct recognition of of former years and have a paper set the essential difference between a in Arithmetic to undergraduates of the candidate writing for a Teacher's Cer- first year. tificate and a candidate writing for

We have much pleasure in stating and fixed by the Senate for Junior Matriculation as its standard for contributors, has been made President | Teachers' Certificates in such subjects as English Grammar, Arithmetic and Mensuration. The teacher must know thoroughly the three R's at least. We expect much good to follow from this feature in the new Course of Study. Matriculants will be better prepared for the college work and teachers will be made to recognize that, in order to be a teacher, not only is careful and wide reading necessary, but also maturity of judgment. School-keeping is every parent knows. This far we are at one with the revisers of the curriculum.

> For the future, so far as the words of the curriculum show, the standard for admission to the University in Arithmetic and Grammar is to be about the same as that to the High Apparently, the intention of

We do not think that our secondary Junior Matriculation. Because, we schools earned this compliment at the take it, the Education Department hands of the Senate. It was not, and cannot accept, in any form, the stand-is not, the fault of the High Schools of Ontario that the operation of the device of dividing the Matriculation Examination into two parts is harmful to the best interests of education, is ruinous to the rational development of the youth of Ontario. And, we submit, that the evil results of this illconsidered device should not be allowed to fall upon the High Schools.

There are several ways of relieving the abnormal pressure which exists in our secondary schools, and which is largely owing to the unwise arrangements of subjects in our scheme of many examinations.

It is said that the reduction made in the work required of matriculants by the revised curriculum amounts to 25 per cent. of the old curriculum. For such a reduction we were quite unpre pared. The only subject against which we heard any complaint was the Latin, viz, that there was too much text required of candidates. But not a word did we hear in regard to any other subject.

And no reduction, certainly, should have been made in English. We are an English-speaking people : kind point of the patriotic educationist readers, excuse the reference, we ought in Canada, a misfortune that Doto know and understand our mother minion Day should fall upon a non tongue.

a discussion on the subject whether of July" that there is about the ìt. would not be shorten the time at the University to three years, on the celebrations of such national thus giving the candidates the oppor- holidays as the Queen's Birthday tunity of covering the first year work and Dominion Day, that the Frenchin their High Schools. caused the abandonment of an ideal take little or no part in the rejoicstandard for our schools? We will be ings. The first two are proclaimed pleased to hear from some member of public holidays, but beyond the Senate giving reasons, or some reason closing of the banks and the public for the change of policy.

involved in the revised curriculum some of our towns that the patriotwhich invite discussion, but we must ism of a people was being celebrated. wait the action of the Education De These public culebrations are an partment before referring to them.

The first of our Empire Days has passed off with considerable eclat. the celebrations giving promise of their extension throughout every part of the British dominions in the years to come. As usual there has been a little "fluttering in the dovecots" of the would-be critical as to the origin of the movement, but what true Canadian Briton cares where the idea came from as long as he can bear witness to its realization? To the Hon. Dr. Ross is due the honor of giving the idea an impetus, while to Montreal is due the honor of celebrating the inauguration on the largest and most attract-The cities of Toronto, ive scale. Halifax, and Quebec were not behind hand, and in another year we have every reason to believe that every school in the land will celebrate the day in a fitting manner. An Empire Day literature has already entered upon its course, and its volume will no doubt continue to swell from year to year.

It seems at times, from the stand-There is *dies* of the school year. Not many years ago there was quite not the fervency about our "First advisable to "Fourth of July" of our neighbors, of attendance and it is somewhat of a damper up-What has speaking inhabitants of Canada offices and a few of the business There are several other questions places, one would hardly know in education to the young and if they

are neglected some reason ought to be advanced why they are neglected, in order that no element of a nation. al hypocrisy may creep into the political and social tendencies that are said to be moving Canada as a community nationwards If our Dominion Day had fallen in June or in September, there might have been more of a hastening toward its fuller celebration through the influence of our young people let loose from their scholastic obligations for the day. The general celebration of Empire Day on the school premises and within the limits of school duties may train our young people to favor a fuller celebration of Dominion Day, and by and by the whole of Canada, English speaking province and French speaking province, will re joice without any seeming hesitancy over the eventful day which saw us made one people.

We give ready welcome to the Educational Journal of Western Canada as another of the several pro vincial periodicals devoted to education. The provincial interest is not likely ever to suffer from the cultivation of these wider sympathies that would make a nation of our common The later role of the country. CANADA EDUCATIONAL MONTHLY is to bring the teachers of the Dominion into closer alliance with one another. but the local coloring must be preserved if the picture is to be com- cational interests. Many have felt plete, and hence we feel that there has been a happy rounding out of at least once every year, as do the our educational interests by the ap other bodies just mentioned, though pearance of the new journal. The in the exigencies of its earlier ex-Maritime represented by the Educational Re. to have its conferences more freview, the Province of Quebec by one quent than once in two years. Since French and one English periodical, its organization it has, however, had and Ontario by the Canadian only one convention directly under

Teacher, and now that the western provinces have also their local exponent of educational progress, there is room for congratulation and encouragement. The support given to these journals and our own is an immediate answer to the statement that Canadian teachers care less for professional investigations and professional reading than those of other countries. The teacher who does not keep en rapport with what is going on in educational circles misses the great incentive to further experimencing in class work and in the improvement of methods; and to keep up with the times in this respect our teachers have to read, not one, but several periodicals which refer directly to their calling. THE EDUCATIONAL MONTHLY endeavors to cultivate a constituency extending from Nova Scotia to British Columbia, and it is no news to our readers that we have never been discouraged in our task by provincial prejudices.

From the first we have done what we could to further the interests of the Dominion Educational Association, and have had the hope that the influence of that body would extend in Canada as the N. E. A. has in the United States, the N. U. T. of England, or the Teacher's Institute of Scotland, with its deliberations form not only a Canadian pedagogic in itself, but make of the Education is cosmopolitan; society a professional power to protect as well as expand our edu that it should hold its conventions Provinces are locally periences it was not considered wise

teachers hear that Halifax convention and the Ottawa convention there is likely to be an interval of three years, something like despair is expressed that the association is even likely to become more than a mere meeting place of pedagogical courtesies, and educational congratulations. The transactions of the Halifax meeting, we are told, have not been issued yet, and by the time they do appear it is possible that all interest in the proceedings will have died out. This is unfortunate, but if the next convention is not to be held till 1901, nothing can be gained by complain-The Dominion ing over the delay. Educational Association, some one has said, wants a more active policy to be of much general service to the notice of our statesmen. There will community; and it is our opinion that, were its meetings held annually, a "more active policy" would very soon come to it as a gift from the educational activities that prevail in our provinces, until, borrowing strength from every current educational movement, it would finally become the influence it should be, though, perhaps, it might not fulfil to the complete letter the intentions of its earlier organizers.

Another educational movement the EDUCATIONAL MONTHLY has advocated has been the organization of a general Education Bureau for This is a national the Dominion. movement in which the Provincial interest has no chance of suffering; and we are glad to learn from the newspapers that some progress has been made towards its realization. From the Ottawa Citizen we learn that a deputation from the Dominion Educational Association of Canada, consisting of Hon. Dr. Ross, Minis. ter of Education; Dr. MacCabe, President of the above Association .

its own auspices, and when our Dr. Harper, from Quebec, and Mr. between the Hay, from the lower provinces, lately waited upon the Premier in regard to the organization of a Central Bureau of Education for Canada. Sir Wilfrid Laurier received the deputation with his usual urbanity, and listened with the greatest of interest to the representations made by the gentlemen entrusted with the explanation. A memorial was placed in the Premier's hands setting forth the objects of such an organization, and the deputation left highly pleased with their reception, and with the promise that the matter would receive due attention at the hands of the Government. And thus has one of the most important educational movements in Canada been introduced to the be opposition no doubt, as there is always opposition to every great public movement; but the day is gone when any man may stand up in Canada, even in the most obscure hamlet, and say, "I object to this thing, and refuse to give my reasons." Even the man who turns his back on the Empire Day notion, or who refuses to join in the national mirth of a Dominion Day, has to give some reason to his neighbors for his conduct; and, if there be any educationists amongst us who, while neglecting to advance arguments in support of their opposition to what will promote Canadian unity, at the same time refuse to acknowledge their prejudices against Canada as a British colony developing nationwards, then the opposition they endeavor to stir up need not alarm any one. The promoters of the Educational Bureau project have advocated it from purely patriotic motives, and they deserve well of the country for their action in bringing the question prominently before those who, from their official position, can work out its fuller realiza- of the Quebec Association. We have tion.

In this connection we note the ambition of the city of Montreal to have the N.E.A. of the United States meet within its limits in the year Toronto has had the honor 1900. of being the host of that mammoth convention, and there is no reason why the commercial capital of the Dominion should not enjoy the same honor if it be willing to pay for it. At the Toronto meeting the preliminary steps were taken towards the organization of our own Central Association, and should the Montreal delegates to Los Angeles be successful there is no reason why the Dominion Educational Association should not hold a sitting or two for the transaction of business while our teachers are in attendance at the Convention of the National Educational Association. Better this than that there should be an intermission of three years between the conventions of the Dominion Association.

The approaching convention of the Protestant teachers of the Province of Quebec is one which may prove a turning point in the career

not thought it right to refrain from referring to some of the indirect methods of those who would make what they would of that body's de liberations; in their aspirations to secure office and personal influence. The wrong-doer is nearly always illogical enough to decry the individual who draws attention to his wrong-doing. In pointing out the ridiculously unconstitutional action of some of our Quebec brethren we acted a part which we are prepared to act again, no matter where such conduct is to be found-in local, provincial, or federal associations. The Executive Committee of the Quebec Association is busy, we are told, making up its programme for the October Convention, and everything bids fair to a successful gathering, with the machinations of the unwise left out, as they ought to be whenever teachers do congre-The politician has a moral gate. code of his own, it is said, but his peculiar methods of making а public opinion, and his still more peculiar logic of sweeping all argument .o the winds by a vote should be frowned down in every assembly which has the higher morality for its guidance.

CURRENT EVENTS.

EDUCATION.

and departmental attention that Ontario has never failed to devote to her! schools, she is noting that the condition of popular education has ceased to improve. The difficulty there, as in other communities, is in the lack of adequate demand. It has naturally been assumed that as the circumstances of the people improved and they are surrounded by many more the people grew more intelligent the comforts, eat daintier food, wear better

desire of all classes to have their chil-In spite of the ceaseless legislative dren well educated would increase Probably it would; but perhaps we are taking for granted too much when we assume that the parents of the present generation are either more leisured or more cultured than was the first generation planted on the soil. It is certain that they are much better off, as that phrase is commonly applied ; that

travel oftener by rail than their fathers | whatever improvement one gets the did. be less, what is commonly called the son did for the best. Nor could he struggle for existence is probably not have done other than he did in deterless, and parents are under as great mining the maximum size of school pressure as ever to make their children districts, which was naturally fixed by useful and to start them in money get the utmost distance that a child of ting. Then, as to the culture, some of school age could walk twice daily. It the immigrants were, no doubt, very has been found in practice, however, ignorant, but others were very well in districts of country far more thickly educated. We doubt if there are more settled than the most of Ontario that, of the native generation who find what with distance, with bad roads, what themselves better educated than their with delicacy of constitution, enough fathers were, then there are those who of families could not be grouped to are fo ced to acknowledge that their carry on a successful school, and the fathers wrote a better hand and brought tendency is to have schools, in prowith them from the old country a more portion to the number of scholars, solid education than they themselves many and bad. The plan that has were able to acquire during the scat been adopted in some countries is to tered days of schooling that were open replace two or three such schools by to them in their own childhood.

school populations is the evil with that converges on the school to bring which Ontario is at present trying to the children from the more distant grapple. The great Dr. Egerton Ryer son, the founder of the Ontario school night. system, set up as his standard a school intercommunication between different district of very small dimensions. His parts of the country would no doubt plan was that each school should have develop in many ways towards the a separate school board. In this he did better for his province than whoever gave shape to the school system of Quebec. Here the school districts are large and contain many schools service. each. So long as a plurality of schools is permitted in a district there is a whether what is wanted is not a comconstant pressure on the part of the pulsory school system such as exists taxpayers to have the money expended in all countries on the other side of in their own neighborhoods. Thus, the sea. After all, this is the logical schools are multiplied and the resour thing. Popular government demands ces for each attenuated. Moreover, education. The public has a right as each taxpayer's money goes into a that the children should be educated. general fund, the whole study of the This is the duty of the parents as m ch people is how to pay as little as pos as it is their duty to teed the children. sible. there is a separate administration for to teach their children than to clothe same emulation: between one district into all sorts of trouble when it atand another, as there notoriously is tempts to do the parents' duty. between one housekeeper and another, only quarrel on broad lines as yet, as,

clothes, ride in better buggies and as to which will have the best, and But, though the hardships may next one wants. Thus far Dr. Ryerone, and to arrange to have a wagon The sparseness of some of the drive in every morning on each road homes and take them home again at Such a machinery of reliable lessening of the isolation of our rural population. It might easily, for instance, become a daily mail delivery and a parcel post, if not a passenger

When all is done it is a question Where, on the other hand, They have no more claim on the State every school there is naturally the them. The State gets, as we know, We. State has a right to do is to demand the people, it was hadly to be expect best a crude and temporary device and saplings, say, by a stumpage tax rendered necessary by an imperfect that would in their case be prohibitive. of a State church once satisfied the destiny of the land on which the timreligious demands of peoples, but no ber grew was farming, and not a longer does so. Still, if the State de scond growth of timber, such conmands that the children shall be edu-isiderations were of minor importance. cated, it seems necessary that for the and the one object of stumpage taxes most of them it must provide the edu cation. We have, however, always limits, to take as large an immediate begun at what is logically the wrong end. Instead of first requiring the education and then providing it where that cannot be otherwise done, we provide it and do not require it at all. This last omission is the weak point.

THE TREE CROP.

terms on which timber may be exported from Canada and imported into the United States has no doubt resulted in fective regulations to check waste. Yet It seems likely, some bad blood. however, to have also a wholesome Indignation at American en effect. croachment has produced indignation at the wasteful way in which the American lessees of Canadian timber region of Europe can hardly fail to have lands have denuded their limits. This, in turn, has led the attention of the people, hitherto hard to rouse on the subject, to the whole duestion of the preservation of timber. almost seem as though, in a country whose first settlers looked upon trees they happen to grow and having the as their natural enemies, to be warred crop as heavy as the land will bear. against with fire and axe, and indeed There is another difference.

between Roman Catholic and Prot-1 for the first, and perhaps the second. estant. But, as we become more and generation to pass away before rever-more interested in the all-important ence for nature's beauty and grandeur subject of education, we shall have as represented in the tree could be remore and more conscientious diffi-stored. So long, too, as the clearing culties and differences. All that the of land demanded all the energies of that the children be educated. In the ed that much interest would be taken abstract it has no right to take the in the prospective values of trees too parents' money by force and take the young to cut. We have always thought children from their parents and edu that more might have been done by cate them as it chooses. This is at legislation to protect the small trees condition of society, just as the device So long, however, as the expected was, like that of the lessee of the harvest off the land as possible.

Ontario has begun to realize howe ". that, to speak very moderately, fourfifths of her area must ever be a lum ber-raising country, and othing else. Good timber is already scarce enough and remote enough to make the care of growing trees a matter, not only of prospective, but of immediate, financial The international dispute over the interest. It is probable that for some time nothing more will be done, in agen eral way, than the adoption of more efmore than this is spoken of by our Ontario correspondent, who suggests the sowing of the cones of the white pine over burnt areas. The Canadian who has travelled through any forest asked himself whether a vast deal more care than we have ever thought of taking would not now ray in Canada. Trees are not there a wild but a cul-It would tivated crop, and there is all the difference between seeking them where Instead in every way possible, it was necessary of every tree growing at its own sweet

straight and free from knots. The effect is not picturesque, but to the eye of the economist, it has a beauty as much above the picturesque as the farmer would see in a crop of fine. robust standing grain as compared with a wheat-field prostrated by a hailstorm. How this result is brought about we need not inquire. We may assume that it pays. If it be said that popular governments like ours are notoriously indifferent to anything but immediate results, and are forced by the conditions under which they exist. to make a special study of taking no thought for the morrow, it remains true that a growing forest is an asset that the country that possessed it can discount, and that will always stand it in stead when it is negotiating a loan. Nor is the harvest, even in the case of the slow-growing pine, so remote as some imagine. We have seen merchantable white pine of eighteen inches diameter standing upon what was a burnt-bare raspberry patch forty years before. We cannot look to the introduction of a perfect system at Fortunately, the object is one once. that can be approached by gradual steps, and by small beginnings, through which experience may be gained and mistakes corrected, although for that matter there is all, or at least most, of the experience of other countries to profit by. One form of forest culture which is now becoming a leading one in Canada yields a speedy crop, namely, pulp wo d The spruce and poplar used for this purpose need little or no culture, and are ready for cutting in ten or twelve years. But it is time we realized their value as affording in many cases the most profitable use the land can be put to, and made a business of preserving them.

ST. HILDA'S COLLEGE TORONTO.

day for the friends of Church Univer- being the same which Bishop Strachan

will, every stick grows up absolutely (sity education for women in Canada and the supporters of Trinity College, it being the occasion of the laying of the corner stone of St. Hilda's College. The presence of Her Excellency the Countess of Minto, who laid the corner stone, added greatly to the interest of the ceremony. At 12 o'clock a large gathering assembled in Convocation Hall, Trinity College, and awaited the arrival of Her Excellency, who was escorted by His Lordship, the Bishop of Toronto, the Chancellor of the University, the Provost and the Council of St. Hilda's Co'lege. The Chancellor read an address, which was presented to the Countess of Minto. The Provost, in a brief speech, explained the objects and history of St. Hilda's, and particularly emphasized the fact that it is the first residence for women attending a Church University in Canada, and the first Women's University residence in Oatario. The past work of the college was referred to in flattering terms, and the Council and lady principal were congratulated upon the success which has attended their efforts in establishing this institution. The Bishop of Toronto, who is President of the Council of St. Hilda's, gave an interesting address, in which he referred to the increasing demand for the advantages of university education for women, and he cordially endorsed the step taken by the authorities of Trinity in opening their doors to women His Lordship referred to students. the improved facilities with which the work would be carried on in the new At the conclusion of the building. speeches the gathering adjourned to the building which is being erected at the northwest of Trinity College. A large platform had been raised which accommodated several hundred guests. Suitable prayers were read by the Bishop, and Her Excellency then proceeded to lay the stone. The trowel used on Friday, April 14th, was a marked this occasion has an historic value, it

College, and which has also been used of fashion, who engaged a master to at the laying of the corner stones of teach her on conditions that he did the various additions to the buildings, not plague her with verbs and parti At the conclusion of the ceremony ciples. We get our smattering of sci hearty cheers were given for the ence in the same way; we learn chem-Countess of Minto and many con istry by listening to a short course of gratulations and good wishes extended lectures enlivened by experiments, and to the authorities of St. Hilda's Col- when we have inhaled laughing gas. lege. An opportunity of contributing seen green water turned red, and phos to the building fund was given, and phorus burned in oxygen, we have ob over \$100 was received. The occa tained cur smattering, of which the sion was one not soon to be forgotten most that can be said is that, though by any of those present, among whom it may be better than nothing, it is yet were many who have the future of St. good for nothing. Thus we often Hilda's very much at heart. It was imagine we are being educated while the first public recognition of a move we are only being amused. ment which has been beguns and carried on in weakness and sometimes tion, without study and labor, is not with little encouragement. Those who education. It occupies, but does not know St. Hilda's know its importance, and feel that the commodious building in course of erection, the testimony of of intellectual keenness and clever Bishop Sweatman and the kindly assistance and recognition of the Countess of Minto are but fitting tributes to a movement which aims to tage. In such cases knowledge proafford greater educational facilities than duces but a passing impression—a the Churchwomen of Canada have enjoyed heretofore.

WORK, THE WATCHWORD OF SUCCESS.

"Work, and be thorough," is our counsel to men who seek to rise by deep sleep, and are seldom called to self-improvement.

part of most persons to arrive at the such cases, comes as a blessing if it results of self-culture, but there is a serves to route up a courageous spirit great aversion to pay the inevitable that, but for it, would have slept on. price for it -hard work. Dr. Johnson held that "impatience of study is the under the guise of amusement, people mental disease of the present genera- | willsoon reject that which is presented to tion," and the remark is still appli- them under the aspect of study and labor cable. We may not believe that there Learning their knowledge and science is a royal road to learning, but we in sport, they will be too apt to make seem to believe very firmly in the sport of both, while the habit of in "popular" road. In education we in tellectual dissipation thus engendered vent labor saving processes, seek short cannot fail, in course of time, to pro cuts to science, or learn French and duce a thoroughly weakening effect,

used at the founding of the Trinity out a master." We resemble the lady

The acquirement of bits of informa enrich the mind. It imparts a stimu lus for the time, and produces a sort ness; but without an implanted pur pose and a higher object than mere pleasure it will bring no solid advan sensation, and no more ; it is, in fact, the merest epicureism of intelligencesensuous, but certainly not intellectual. Thus the best qualities of many minds, those which are evoked by vigorous effort and independent action, sleep a life, except by the rough awakening of There is no want of desire on the sudden calamity or suffering, which, in

Accustomed to acquire information Latin "in twelve lessons" or "with- both upon their mind and character

"Multifarious reading," said Robert [In looking over some of the adson of Brighton, "weakens the mind vertisements for teachers, we still like smoking, and is an excuse for its notice the disgraceful appendix, lying dormant. It is the idlest of all "State salary expected." If teachidleness, and leaves more impotency than any other."

operates in various ways. Its least patience shown towards this kind of mischief is shallowness, its greatest, thing which is surely no virtue. The the aversion to steady labor which it induces, and the low and feeble tone of mind which it encourages. If we would query was not put to him in the be really wise we must diligently apply ourselves, and confront the same con tinuous effort that our forefathers did; | tion. for labor is still and ever will be, the inevitable price set upon everything pect?" said the secretary's note. that is valuable. We must be satisfied to work with a purpose, and wait the master received," was the reply re-results with patience. All progress, of turned in the applicant's letter. the best kind, is slow, but to him who And when he afterwards appeared works faithfully and zealously the re before the Chairman of the Board ward will, doubtless, be vouchsafed in in person, he did not hesitate to give good time. The spirit of industry, the same reply. embodied in a man's daily life, will gradually lead him to exercise his formerly paid to the position" he rowers on objects outside himself, of said in a respectful way. greater dignity and more extended use have by your action declared the fulness. And still we must labor on, position to be worth that amount, for the work of self culture is never and as I intend to fulfil all the finished. "To be employed," said duties of the position faithfully and the poet Gray, "is to be happy." "It well, I expect to be paid the value is better to wear out than to rust out," you have yourselves placed upon the said B shop Cumberland. "Have we work to be done." n t all eternity to rest in ?" exclaimed Arnauld.

everywhere for men to equip them not what is beginning to be called selves with knowledge, for the struggle in sneering parlance a cheap teacher of life. Progress in knowledge should be the aim of old and young, the Sir John Gorst, the Vice-Presi-needs of the times demand it. Man dent of the Lords of the Council of was designed for work, not for ease Education, England, is finding what Most people want the results of self-it is to be Minister of Education culture without the work. Knowledge with a sperior officer over him. acquired without study and labor is The Duke of Devon is President of not education. Those accustomed to the Council, and when Sir John learn easily will reject that which is makes his explanations before the accompanied by study and labor. We House of Commons it is all but should desire to rise by study and hard impossible for him to keep out of work, whose results will endure the sight his personal wish that things tests of time and use.—Self Help.

ers are true to one another, the hateful phrase is sure to disappear The evil is a growing one, and in time, though there has been a other day a young man was applicant for a vacancy. The hateful open advertisement, but in the after note written in reply to his applica-

"How much salary do you ex-

"The salary which the former

"That is the salary you have "You

There is a heroism in these words surely which must go to the heart Work, the watchword, calls from of every teacher in the land, who is

could have been other than they are.

in the Nova Scotia school system, final only 425 survived. The s stem and some of the Nova Scotian edu-that declares so many people incap-cationists seem either unwilling or able of being educated is surely unable to tighten it. There is no either too wide or too intense in its province in the Dominion of Can-scope. The proportion of imbeciles ada outside of British Columbia in in the world is surely not so large as which Normal School training is it is in India. If McGill University not a recognized element in its edu- in the elaboration of its curricula cational system. In New Brunswick, should force our minor Canadian Prince Edward Island, and Quebec Universities to outdo it in the width (on the Protestant side) every and intensity of its course, our teacher has now to pass through a young Canadians may find themcourse of professional training. And selves under the same suspicion of this has long been virtually the case in becility which the young Indians m equipped Normal Schools and its to its course until its own professors numerous Model Schools. But in, confess that such a course cannot Nova Scotia there is still the option be accomplished in the time must of attending the Normal School, a surely have some other object in state of affairs which one would view than the training of our youth. hardly e pect to find in a province Perhaps a composite examining whose Common School progress board would induce a mean in this began energies of Dr. Forrester.

lately conferred the degree of M.A. the movement in the direction of a (causa honoris) on two of the prom- higher standard of comfort and reinent officers of the Educational finement proceeds at a steadily ad Association of England. The re-lyancing rate, But the S.hool Guardcognition of the schoolmaster comes inn seems to think that there is room slowly, but not less slowly in Canada | for improvement in the teaching of it seems than in Great Britain. The next Governor-General is sure to get his doctorship from every University in the land, but where is the Canadian University that would ever think of conferring even an honorary M.A. upon the President of a Canadian Teachers' Association?

rooting out there is for students in beef which seems to him good India, between the University en- taste"; "an ugly piece of beef trance examination and the final for B.A. Last year 5,989 candidates presented themselves for matricula tion and 3,193 passed. On the first examination in Arts only 1,418

There seems to be a screw loose 'succeeded in passing, and at the Ontario with its splendidly do. A University body which adds with the Normal School kind of University expansion.

From a report on the Training The University of Cambridge has Colleges of England, we read that French, if the examining revisors' reports are to be trusted. Of the manner, for instance, in which the words, "Une grenouille vit un bœuf, Qui lui sembla de belle taille," were tr inslated by certain candidates, the following are amusing specimens : "A greengrocer lived on beef, which seemed to her beautiful cut "; " one person with a girl who resembles a Few have any idea of the terrible tail belle"; "a geraffe (sic) lives on which looks like the beautiful tail", and " an old woman kept a cow who thought she had a pretty tail."

The class which retires this year

from the Ottawa Normal School is one of the brightest, perhaps, which has graced the benches of that institution's assembly hall, and the Province of O ario is to be congratulated on having such an addition made to its large and efficient The Hon. Pr. army of teachers. Ross lately prid a visit to the institution, and tock advantage of the occasion to give one of his stirring addresses.

The pening of the Royal Victoria College, Montreal, as an annex to McGill University, will form a striking episode in the history of female The ladies oducation in Canada. have shown themselves to be anything but inferior to men in the overcoming of the difficulties of a collegiate course, and the improved quarters which Lord Strathcona and M¹ u₁. Royal has provided for them while encountering the tribulations of the Donalda course will no doubt be further in their favor. Those who are still of the opinion that the female mind is not equal to the scholastic curriculum, which men can accomplish, may learn of something to change that opinion kindly thought in giving to them on reading the reports of the late examinations in McGill University and in Glasgow. In Montreal Miss Holliday, this year, 'ook first-class' honors and a gold medal. In Glas gow the degree of M.A. has been open to ladies only for a few years, but there they have asserted themselves without delay. In 1897 two ladies took honors in classics, and the following year v 'inessed the same feat. Last October a lady graduated with double honors in mathematics and English lit. atur., and another with first class Lenors in English literature. It would be interesting to have like returns from the other Canadian colleges at which ladies have taken highly standing.

At the beginning of this year the boys and girls of a certain school in England decided to make a present to the royal children at Osborne of one of the bookshelves for children issued in connection with the Masterpiece Library, and containing 150 of the "Bcoks for the Bairns" series, and selections in prose and verse On communicating the intention of his pupils to Her Majesty, the teacher received the following letter from the Qucen's private secretary: "Osborne, February 7, 1899. Dear Sir,-I have to thank you for your letter of the 25th inst., in which you intimate that the boys and girls of your school have contributed towards the purchase of one of 'The Children's Bookshelves,' and desire to offer it for the acceptance of the royal children who are now at Osborne. The acceptance of such offerings is contrary to the rule, but the Queen has approved of a special exception being made in this instance I therefore beg that you will express to all those children who have taken part in the presentation the sincere thanks of Her Majesty's grandchildren for their the interesting and comprehensive selection of little books which are included in the 'Bookshelf' The coloring of the pictures in the copy of 'The Pilgrim's Progress' does great credit to your little pupils. Wich your permission the book will be retained with the others."

The people of Oswego seem to be believers in the absolutism with a good man at its head. In the new law for the government of its schools the following are recorded as the functions of the superintendent: That functionary may be removed only upon written charges, and after due trial and conviction. To be eligible the superintendent must have had five years' actual experience as a teacher either in New York Public Schools, or Public Schools elsewhere of equal grade in requirements, or have acted as superintend ent or principal of schools, or taught for a like period in a college, all such experience being within the last fifteen years The superintendent. has exclusive control (all the teachers employed in the city schools, with exclusive power and authority to select, non , le, dismiss, transfer, discharge, suspend, fine, grade, re grade, and control all of said teach ers, and in his discretion to do any and all such other matters and things in and about the force and personnel of the teachers in the free common schools of the city of Oswego as in his judgment will tend to improve the efficiency of the said free com mon schools and the teachers em ployed therein, and as will be to the benefit and welfare of the scholars in attendance at such schools. It is his duty to select and nominate teachers solely with regard to and upon individual merit, and all other things being equal, to give preference to the citizens of Oswego.

There is much rejoicing among the teachers of New York over the passing of the Ahearn Bill, which provides that ...o regular teacher shall receive less than \$600 a year, and no teacher after ten years of service less than \$900, nor after fifteen years of service less than \$900, nor after fifteen years of service less than \$1,200; that no vice-principal or first assistant shall be paid less than \$1,400, no male teacher after twelve years of service less than \$2,150, no male principal after ten years less than \$3,500, and no woman principal after ten years less than \$2,500.

The number of teachers graduating this year from the McGill Normal School does not exceed a hundred and forty. The most important question which the Boston authorities have had to meet is the excessive number of long for lack of funds.

graduates of the Boston NormalSchool. Much time and thought during the past year has been given to candidates for positions. There are 256 Normal graduates of the last three or four classes waiting for places. It is proposed to limit the number of Normal School pupils. Not more than seventyfive should enter. Then those who were graduated would be practically s ne of a trial in the schools. Principal R bins, of McGill Normal School, is no: likely to have the same trouble. seeing trained teachers are beginning to be in request in the Province of Quebec.

What a magnificent object-lesson for the boys and girls—an incentive to awakening ambitions, a deterrent to possible criminal germs! The sixty st dents of the Schenectady Classical Institute lately went to Albany to make a tour of the capitol and of the Albany penitentiary. In both legislative chambers the party was accorded the privilege of the floor, and they were presented to Governor Roosevelt. What school in or near Ottawa, Toron to, Quebec, Halitax, or our other Canadian capitals have ever been invited to visit the Parliament Buildings, where can be so easily learned the lesson of our legislative system?

The Duke of Devonshire, Chancellor of Cambridge University, recently presided over a meeting at Devonshire House to consider the financial needs of the University, and the estab ishment of a Cambridge University Asso-The chairman set forth the ciation. various r. quirements of the University, in buildings and endowments, to meet the increased demands of the day, and said that altogether something like half a million was needed. He announced that he would contribute £10 000 to the endowment fund. In presence of the munificent gifts given to some of our Canadian collegiate institutions, it is not likely that Cambridge will suffer

MAGAZINE AND BOOK REVIEWS.

In the June number of *Scribner's* | Ford varies in the temper of his work. Magazine are published chapters eleven to thirteen of the " Ship of Stars " by A T. Quiller-Couch. By this time one can understand the interesting article on "The Opera boyhood of Taffy; it is a romance, and yet psychic enough to please the taste of the late nineteenth cen-There is another chronicle of tury. Aunt Minervy Ann by Joel Chandler Harris, and a couple of good short stories. The singular letters of Sidney Lanier are continued, giving the most vivid impression of the thoughts of a musician. Of a different kind and yet kindred at the same time are the letters of Robert Louis Stevenson Davos 1880-1882.

Charles Emory Smith, Postmaster-General of the United States, explains the organization of the United States postal service in an article which appears in the May Cosmopolitan. Domestic science receives a good deal of attention in the same number. The Ideal and Practical Organization of a Home, by Van Buren Denslow: Fire Appliances and Science in the Modern Kitchen, by Anna Leach, being among the articles dealing with this subject. Larry McNoogan's Cow and Canada, by two Canadians who is a capital short story by Walter Barr. in which he illustrates incidentally pulls, lawyers and railways.

Littell's Living Age has been reproducing for some time from Cornhill Magazine The Etchingham Letters, by Mrs. Fuller Maitland and Sir Frederick Pollock. A more charming survey of life and character is seldom found ; it is one of the few new books that one would fear to lend.

"The Story of an Untold Love" was a little too intense, but "Janice Meredith," at present appearing in the Bookman, is a historical tale full of On the whole the characters of the vigorous and agreeable people, not too women are more successfully portrayintrospect.ve. It is odd how Mr. ed than those of the men, especially

The May number of this magazine contains a review of the drama of the month by Norman Hapgood, and an Season of 1898-1899." The "Humor of the Romany Chi" is an article by Theodore Watts Dunton.

The St. Nicholas for June contains two interesting illustrated articles on "Mars, the Planet of Romance," by Mary Proctor, and "The Great Red Planet in the West," by Mabel " Quicksilver Sue " Loomis Todd. is a most entertaining serial, by Laura E. Richards, that is thoroughly healthy in tone. It is a splendid thing to point out to children sometimes that happiness is not in the abundance of things that one possesses. "Training for Boys," by Samuel Scoville, Ir., will be read with much pleasure and satisfaction by athletic youths who only want to know what they ought to do before they begin doing it.

The Span o' Life, a tale of Louisbourg and Quebec, by William Mc-Lennan and J. N. McIlwraith. Toronto: The Copp, Clark Co.

This is a story of Scotland, England, are quite well enough known by previous work not to need any recommendation. The chief merit of the book lies in the simplicity and freshness with which the story is told and the various adventures in it outlined. It is a charm somewhat akin to the verse of the song from which the story takes its name, The Span c' Life's nae lang eneugh. The surprised reader feels that he might have been given a hint about the identity of Father Jean. One did not even suspect that there might be anything to tell about him.

Lady Jane, Madame Sarennes and her fessor Blackie, it may be remembered, daughter. had an opinion of his own as to the

Books received.

D. C. Heath & Co., Boston.

LeSage's Gil Blas, edited by A. Cohn & R. Sanderson. Glimpses of Nature for Luttle Folks, by Katherine C. Griel. Still Wasser, edited by Dr. W. Bernhardt.

Houghton, Mifflin & Co., Boston.

Corn Plants, their uses and ways of life, by F. L. Sargent.

The American Book Company, New York.

Theory and Practice of Teaching, by David P. Page; edited by E. C. Branson.

Ginn & Co., Boston.

El Sé De Las Ninas, edited by J. D. M. Ford.

The Macmillan Company, New York.

The Nature and Development of Animal Intelligence, by Wesley Mills.

The key furnished by the new issue of "Who's Who" to the pronunciation of those surnames whose spelling gives no clue to their orthodox sound should prove of considerable utility to those who desire to be correct in such matters. Why such a name as Cholmondeley should be called Chumley, or Dalzell Dee el, or Geoghegan Gaygan is not prima facie evident, but so custom has decreed. The late Pro

fessor Blackie, it may be remembered, had an opinion of his own as to the pronunciation of Geoghegan. He called it "Gaun," much to the disgust of one of his students who bore the name. At last the student rebelled; he declined to answer to his name so metamorphosed, and blackie, after making three ineffectual attempts on one occasion to get an answer to "Gaun," looked at his opponent, shock his head, and exclaimed, "Ay, ay, Geoghegan (this time giving the name its correct pronunciation), but you're a dour devil."



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