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#  <br> THE <br> Devoted to Education, Literature, Science, and the Arts. 

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Drawing as an Flement of Advanced Indinstrial Eduction.
HY C. B, STETSON.
A pitper rad hefore tise Tecimical Section of the Nationa! Teachers' Association, at Baltimare, July 13, 1876.
The demand for advanced industrial education, which has grown rapidly of late years, must, continue to grow for years to come, in every department of human industry. This is evident from the general tendency of civilization, from the fact that brain is counting more and more, while brawn is counting for less and less, in nearly every kind of labor. The construction of buildings, of - machinery, of ships, and of bridges, the working of mines and the cultivation of the soil, and all the better class of manufactures call for a liberal education of its kind, no less than do law medicine, and theology. The call, it inay be repeated, is already urgent for large numbers possessing what may be vaguely termed advanced industrial education. What is this? The present paper proposes to consider one of its chief clements.
industmial value of nataving.
Whether we consider the technical instruction required by men; or by women, for success in industrial pur-
suits, we shall find drawing to be the most essential single element of such instruction in all its grades,- the lowest and the highest. The truth of this assertion any one can substantiate for himself, by personal inquiries among the more intelligent of the men and women cugaged in the different industries, and by reading the official reports of the various commissioners who have been appointed from time to time during the last twentyfive years, by European govermments, to investigate the subject of technical instruction It is true that a know. ledge of chemistry, for example, will be found more essential in some employments than a knowledge of drawing; yet when the different employments are taken as a whole, it will be at once seen that drawing must be conceded the first place in industrial or technical education. This might seem a reckless assertion, were it not fully sustained by the very extensive investigations which European goveruments have made, and whose results, having been published, may be read of all men.

## the compliehensiveness of diawivg.

Neither architecture, sculpture, nor painting, can get on without drawing. For only one of these-paintingis color an absolute essential. Hence it is that architecture, sculpture, and painting are so frequently spolien of as the "arts of drawing."
Under architecture may be grouped, so far as general principles of drawing are concerned, all linds of construction, apart from building, as machinery, locomotives, ships, bridges, fortifications, ctc. Fora like reason, under sculpture may be grouped stone cutting for decorative purposes, wood-carving,varieties of metal-working, all ornament in relief, modeling for the purposes of pottery, glass manufactures, etc. And when color is enployed for decorative purposes, as it must be upon a flat surface,-cloth, for instance, if to bre decorated,-the color (exceptin case only an even tint is laid on) must conform to some pattern predetermined by draving; and this, whether the color be applied in flat tints or accord. ing to the principles of chiaroscuro. Thus it happens that every object made by the hand of man, if its form is of any consequence, is inuebted, with rare exceptions, to drawing, for its form, or its decoration, or for both.

Drawing not only expedites construction. in all cases, but oftentimes construction is absolutely impossible without drawing. In order to the gpeatest oxpedition and economy, there must not only be professional draughtsmen to make the original drawings, but the workmen must hnow at least enough of the principles on which the drawings are made, to be able to work from them understandingly and without constant supervision. -

## cultivation of the taste.

What has just been said of drawing refers to it only as a help in construction, regardless of whether the ob. yect made be beautiful or ugly. Now, there is no one who does not prefer the beautiful to the ugly, or what he thinks to be beantiful to what he thinks to be ugly. Beauty has a commercial value which cannot be easily overrated. Instruction for industrial purposes must, themefore, aim to cullivate the taste as it applies both to the form of the object and to its decoration. Though the Jatter adds nothing directly to the usefulness of an object, yet it often adds so much to its market value that almost everything now made receives more or less of ornament. The taste can be better depeloped by means of drawing than by any other one thing.
A refined and intelligent taste in respect of objects that appeal to the eye is next to impossible withont some knowledge of drawing. One may like or dislike, but little more. There should be good taste, ii may he observed, on the part of the consumer as well as prodacer. Indeed, it is a truism that the taste 'shown in the manufactures of a country never rises, except in. special cases and for special reasons, above the taste of the people,-of the home consumers.

## DANGER OF NAIROW VIEWS.

But what is drawing? Is it something fixed and determinate, or something vague and nebulous, which each may define to suit himself? One may well be excused for asking such questions in this country, where he finds such divergent views held by persons who, having but slightly examined the subject and got a glimpse of one of its many aspects, nevertneless think they linow all about it.

Drawing, when regarded in both, its artistic and industrial applications, resembles mathematics in comprehensiveness. It would $\ddagger \mathrm{e}$ quite as reasonable for a person who had mastered arithmetic only to claim that he linew all about methematics and its applications, as for a person who had learned to draw from the solid only to claim that he knew all about drawing. From nothing eles does drawing suffer so much in this country, and will continue to suffer so much the next ten years, as from the very narrow views held by so many person who thiak they understand all about its scope, its practical and artistic applications, and its value as an educational discipline. Itsis to these persons that large numbers, who know nothing about drawing, look for leadership. When the bind lead the blind, there should be no ditches in the path; but in dealing with instruction in drawing, one has special need of good vision. There are dangerous pitfalls on all hands.

Let us consider some of the general characteristics of drawing. With these the details, which are too numerous to be considered on the present occasion, must all harmonize.

## bRAWiSG Two dimensions.

One of the first things which ;should be noticed is the great fact that all varieties of drawing may be reduced :o lwo class: representation of only two dimensionslength and breadth; and representation of the three
dimensions-length, breadth, and thickness. 1 clear understanding of the general difference between these two things will help one greatly towards a clear comprehension of the iwhole subject.

When only two dimensions are drawn, there canle no representation of thicleness, of relief, of solidity. Consequently alliparspective effects, all light and shade, and all color, when applied according to the principles of chiaroscuro, are out of the question. No devices for sug. gesting solidity, for the purpose of carrying the eye below the surface of the papez, are properly in order. Lights and darks may be indicaled by halftint, or flat tints, showing that the surface is raised or depressed in parts; and colors may be applied in flat tints, as is usually done for the decoration of woven fabrics, of that walls and ceilings, and even in the representation of the human fgare in stained-glass windows. In a word, when only two dimensions are drawn, all true pictorial effects, everything of the nature of chiaroscuro, are among the impossibilities. Hence the drawing of two dimensions compared with the drawing of the three dimensions, is a very simple affair ; yet it is of almost endless application in the different industries.

It takes for its basis the figures and problems of plane geometry and their applications. Construction of every Kind,-building, machinery, furniture, sail-making, and so forth, -requires a knowledge of such drawing. It is also in comection with the drawing of two dimensions that nearly all the principles of design, applied in determining the forms of objects, or their decoration, are best learned. Not only, what should be the due proportions of objects, and what the principles to be observed in flat ornament, when only lines and conventionalized forms are used, but many of the princinles swich good taste require to be observed in relief decorations, can be taught in this conuection. And right here it is that instruction in the great decorative styles of different ages and nations properly beging. Classic art can no more be neglected than classic literature.
When only two dimensions are represented, it is evident that fat copies, like prints, are the proper things; indeed they are often the only copies which are possible. Even when relief copies are used, they must be treated as though they were flat. The copies should be of the very best, since the development of the taste for the beautiful' in the outline and proportion of the objectsand in their decoration, is one of the prime ends to be sought in this kind of drawing. Bint the learner shonld by no means, he limited to drawing from copies; he should be often exercised in the production of original design, both for objects and ornament. He thus acquires facility in making intelligent applications of whitever principles he may have learned, and learns to draw and to design, at the same time. Indeed, original design is the lest proof that one understands the principles of design, as original composition in the best proof that one understands the principles of grammar and rhetoric.
The very great industrial value of drawing lwo dimensions has now been shown in a general way. Its educational value is also ver's great Yet there are not a few persons, who, regarding themselves as specially wise in matters which pertain to drawint, ery down atl drawing that does not carry the eye below the surface of the paper,-that does represent the three dimensions.

DHATVING THE THREE DINENSIONS.
When we come to representing the three dimensions, -length, breadth, and thickness,-then persperiive and and all the other effects of chiaroscuro are in order, or not, according as we desire simply a pictorial result, at end in itself, or to make a drawing for the guidance of
workmen. Here he will be well to mike a note of, the decided difference between the two modes of represinting solidity for the two purposes named.

When the three dimensions are repesented for artistic or pictorial purposes, the diawings are made from actual objects, or else imaginary objects are drawn as though they were actuany in existence and before tho cye. In neither case can the drawings be used for the purposes of construction, except in a merely incidental way. Drawing from the solid is only indirectly of service in the industries, but that indirect service is very great.
When the three dimensions are represented for tho guidance of the artisan, the drawings, instead of representing what already exists, represent an obect which is to be made. That the olject may be made from the drawiugs, they must represent its inside as well as its outside, its rear as well as its front. The object must be showin in parts, and not as a whole, and each part must be drawn to it scale. Of course there can be no perspective,-none to the effects of chiaroscuro.

Such being the radical differerice between the two modes of represending solidity,-the one for a pictorial, the other for an industrial purpose, -that it is not a little astonishing to find persons, even in this country where ignorance of drawing is so great, who hold that, even for indnstrial purposes, drawing from the solid, with all the difficulties of chiaroscuro, is the kind of drawing which should be specially taught in the public schools. In their opinion cill other kinds of drawing may be salely ignored, or should at most yeceive but slight consideration. For a moment contrast this opinion with the lesson taughi by the Centennial Exposition. If yout examine all the manufactured products there displayed, you will nol find one that was made from the perspective drawing. Some of the more elaborate decoration, however, will show effects of chiaroscuro that can be learned only by draving from the sofid and from natural objects.

Drawing from the solid, as a part of advanced technical or industrial education, must by no means be ignored. It affords an admirable discipline for the hand and eye; it trains the imagination to realize solid form in space; it increases sensibility for delicate gradations of light ind shade; and so it niust always be regarded is an essential element of technical as well as purely artistic education. It is only necessary to see that it occupies its legitimate place. A word as to the general course which instruction in this kind of drawing should take.

To be continued.

## Grammar for Litie Dnea.

making wonds.
When we add or to the end of at word, it sometimes makes it mean one who does the deed, or who works the work.

Thus a man who can hunt is a hunter, and a man who can sing is a singer. A miller is a man who vorks in a mill, and a farmer is a man who works his farm with his men and horses.

A man who keeps anything is a keeper; if he keeps a shop he is a shop-keeper, and if he keeps an inn he is an inn-keeper.

When I sleep I am a sleeper, and when 1 eat I am an eater; when I walk I am a walker, and when 1 read I. am a reader.

Father and mother say that I am a player more than a worker. It is better to he a lover than a hater; and it

But when we add cr to otiners words it has puite an olher meaning. When we add er to deep the word is deepry ; and deeper means more deep. In the pretty brock lhat runs by our door, the parts where it runs fast are not very deep, but the still pools are deeper. The mill dam is deeper thon the pools of the brook, and the well is deeper than the mill dam. As the well is deepny than all the others we call it the deepest.

We say the pools are deep, the mill dam is deeper, mil the well is the deepest of them all. The worl deepest is made by adding est to the word deep.

In the same way Ann is smaller than 1 am, and my little brother is smaller still. I am taller than Ann is, Ned is taller than I am, Nother is talter than Ned, and father is taller than mother. He is the tallest of all.
-Mondery Mornin!.

## Gireat Mistalyes.

To set up our standard of right, and judge people accordingly. To measure the enjoyments of others by our own. To expect uniformity of opinion in this world. 'ro endeavor to mould all dispositions alike. Not to yield to immuterial trifles. To look for perfection in our own actions. To vorry ourselves and others with what cannot be remedied. Not to make allowance for the infirmities of others. 'To consider every thing impossible which we cannot prrform. To expect to be ible to understand everything.

## Conservatism in Spelling.

## bi ceonge f. chace.

It is alleged that the orthography of the Englisin language is illogical, inconsistent, and difficult to remember. Radicals advocate a spelling reform which shall remove these faults. Assuming that the multitude will then learn to spell, they proceed to indicate the means of reform.

Admitting the allegations to be, in a measure, true, I deny the feasibility or the desiralility of radical change: When a child is born, it inherits the constitution, and temperament of its parents, and in a lesser degree, of its more remote annestors. Careful training may foster what is good, check what is evil,-may, to a certain extent, control the physical, moral, and intellectual growth. To attain the best results, even thus far, implies an intelligent, unrestrained, unopposed guide, rehgiously oleyed. But training cannot wholly eradicate constitutional tendencies. Training cannot transform ugliness into beaty, deformity into symmetry. Training will not make an idiot become a plato. Barring accidents, a child is intelligent or stupid, comely or ugly, to some extent virtuous or vicious, uccording to his ancestry. His parents and teachers-must take him as he is, and make the most of him. A scuiptor could design a better physical man (Adam accepted) than ever breathed the breath of life. Adam was made a "litlle lower than the angels." Humanity of to-day has inherited the accumulated imperfections of numerous generations of ancestors.

The law of language does not differ from the law of life, Given a few roots, certain laws of combination and sound, and a language could be constructed perfectly logical and consistent,-a complete machure. But lan:guage is not a machine; it is a growth, and liable to all the accidents of growth. Its formation has depended upon the wants, the virtues and vices, the harmonies and discords of mankind. You may prune and manure your
trees as much as you like. Their beanty, strength, and fruitfulness still depend upon the soil, the stock, and the weather. An adequate genius, with given materials, might build a speech for the English speaking people ; but the result would not be the English language. Ihat is a fixed fact, and reforms cannotoverstep certain limits without attacking the very constitution.
Before the days of printing, many irregularitios in spelling occurred, which have since disappeared. It was wise to drop the $i$ from musick, pinysick etc., because it never had any business there. It is well enough to drop "from such words as honour, because it then becomes its Latin prototype, honor, and at hest has only a cousinly resemblanee to the modern French form homeur. It may le tolerable to write thenter, instead of the "logical" and "consistent" theatre ; for the multitude neither know nor care of its origin from thentron. So they first mispronounce theatre as if it ended in "ter," and change the spelling to suit bad orthoeipy. moreover, there is no reason in the nature of things why ter is any easier to remember than tre. Before learning the "powers" of letters, a five-year-old would as soor pronounce c-0-w "cat," as anything else.
Must the scholar who sees a logical consistence, an etymological history, in many anomalies of English orthography, give up his consistency because some ignoramus, or even soine scholar, has a poor memory ? Let the forgetter buy a dictionary and accept the sitiation. A bad memory is an unfortunate defect, just as much as lack of mechanical sliill, or of physical strength. Must the shilled mechanic throw his tools away because a bungler cannot make a watch? Must the athlete chop off his right arm because it fatigues a consumptive to drive a nail?
Some people are fond of saying that George Washington was a bad speller. Was being a bad speller what made him "Father of his country"? Then he has more patriotic sons than we had supposed. We are told that words should be spelled as they sound. As they sound to whom? To the ignorant, who have only sound for a guide? Why do the latter write "plaze," "plese," " plas." anything but "please?"' Wonderful consistency! As they sound to the learned?' How shall they form a system out of the heterogeneous elements of the English language? How wonderfully agreed orthoëpists are as to.the sounds of words 1 As well might you expect the child of an Octoroon mother and Chinese father to grow up a full-hlooded Caucasian.
Again, is the inconsistency of sound in "plough" and "cough" any worse than in "plow" and "blow"? What is the use of the silent "gh"? What is the use of the silent ent in French Ils aiment? How shall we explain ai (ii) in aiment, ai nasal in pain, which the hoarding-school miss burlesques pang, ai (è) in faisant? Is the English the only inconsistent language ? Students of comparative grammar understand these things and can explain them. Must the fruit of ages be destroyed lecause some cannot enjoy them? Must the mountain forests be cut away to raise saplings upon the prairies? I believe in reform; but let it be a real reform; a banishment of vulgarisms, a dropping of useless, unmeaning irregularities in spelling or diction.
Here is a place for conservatism. Unchecked radicalism leads to revolution and anarchy. I do not suppose my protest will weigh much with modern radicals. I am not Mrs. Partington. I shall not attempt to mop out the Atlantic ocean. But when I see the stormy flood coming, I will put on the weather strips, and, as long as possible, keep the door barred.
The trouble with learning to spell, or learning anything, as far as the rising generation is concerned, lies
not in the subjects taught. Ignorance docs not exist because, teachers are not well trained, faithfu, and scholarly, nor from ill-apponted schools. It exists (I write in no misanthropic spirit) becalse the present generation of children, carried on the intellectual shoulders of their teachers, reared upon dime novels, uursing botlles, and "soothing syrup," lacks brains and industry!-New England Journal of Ellucation.

We take the following from the Montrent Gazettc of the 20th September, and recommend it to teachers for perusal.

## Teachers' Conventions.

It is pleasant to learn that the class of persons who enter tho Normal School for the purpose of preparing themselves for the position of teachers is yearly improving. In mative intelligence, in literary açuirements and in aptness for the profession to which they intend to devote their lives, the pupil teachers of the present are far in advance of those who where acenstomed to pres. it themselves for admission some ten or fifteen years afo. This important revolution is mainly owing to ${ }^{3}$ ability, energy and zeal in the discharge of their duties of the gentlemen who form or have formed the staff of professors in that establishment. When the present Principal entered on his career of usefulness in the McGill Normal School nearly twenty years aco, education was at a very low ebb in this Province. Very great difficulty was experienced in the obtaining of qualifed teachers for even elementary schools; the persons who had the direction of the schools as Commissioners were, in many cases, but poorly fitted to discriminate between good teachers and bad ; parents were deplorably apathetic on the subject of edncation, and the attendance of pupils in many districts was painfully irregular. Under such circumstances it was no easy task to set about a reform, and it was still harder to carry out the reforms which were necessary. It was required first to create an enthusiasm, a real love for education for its own salie amons a certain number of the population, to induce young men and woman to give time, and industry, and money to the acquisition of learning and of the method by which instruction may be lest imparted to others. In doing so, some, perhaps many of them, were abandoning the opportunity of making a speedy competency for themselves in branches of labor wherein work met with a juster and higher reward. For, inadequately as, in many instances, teachers are paid at present, they were much worse paid in the years of which we are speaking. The old system, now, we hope, almost abolished, of "boarding round," then generally prevailed, and this precarious and shifting mode of life was regarded as equivalent for a portion of the mere pittance which constituted the teacher's salary. Schoolhouses were illbuilt, ill-ventilated, and seldom, in any respect, adaplerl for the purnoses which they were intended to fill.
Not only, as before intimated, was the attendance of the scholars annoyingly and injuriously irregular, but the scholastic session varied in different districts according to the means, occupations or caprices of the trustees or those for whom they acted. In fact, the position of the teacher was a very uncomfortable one. He was the servant of the whole community, yet the whole conimnnity was unable or unwilling to pay him what wonld afford him a decent maintenance. Then, there was no proper classification of schools. Occasionally one small room served for academy, model and elementary schou: combined. In this, as in almost every part of the old sys.
tem, chance prevailed over method. A teacher "came along" and was " hired," if his looks pleased his patrons, If he proved unsatisfactory, the school was closed till another candidate presented himself, or, more frequently, herself. In most places the bad or indifferent teacher pleased as well as the superior, and, as may be imagined, those of the former class were vastly in the majority. The man or woman of good education found some more profitable and better appreciated use for it. If a district happened to be favored for a term with a well qualifed teacher, there being no sufficient pecuniary inducement for his continuance, he soon resigned his charge and an inferior person toak his place, and undid what he had $b$ en doing. This is no fancy picture. It was just the state of things which existed when the Normal School was established for the purpose of training teachers. It was then seen that the want of not the will but of the way had been the cause of the previous low state of education. At once a large number of young people of both sexes availed themselves of the advantages ollered to them, athd, at che close of the first year of work, there was a general call throughout the country for Normal School teachers. The pupils of that year were the first of a succession which has since supplied our sehools with properly qualified teachers, and the reputation of the institution has ever since been increasing. Its importance, as a factor in the welfare and progress of the Province can hardly be over estimated. Our present educational status compares favorably with that of most rivilized nations. Compared with that which existed twenty years ago, it is something to excite both our surprise ind our gratitude. And we may say its usefulacss is only just beginning to be felt.
In Lower Camada to day we have a body of teachers of all grades, of which we ought to be prond, and which forms a solid basis for any forecast of the population which is hereatter to possess the land. For, as the teachers are, so will be the neople. It is often complained that the teachers profession is not regarded with that respect which is due to it, and, indeed, there is some reason for the complaint. Those who devote their lives to the form ing of the minds of a growing people ought to hold a rank in the popular affection and esteem secomd to none. On them it depends how the places which we now fill will be filled hereafter; whether the land which we love will be a land of knaves, of sluggards, of roues, or a land of honest, industrious, noble men, doing their duty: to God and to thein:fellows. The teacher therefore, onglit to have the sympathy and the support of the whole community. Especially ought parents, as far as lies in their power, 10 co-operate with hm in his cflorts to arouse the intellectual and moral energies of the young people com mitted to his care. They ought, instead of making difficulties, or adding to those already made, to exert themselves, wherever possible, to smooth them away. And in how many ways they can do so, if they only tale the trouble!

We hope these remarks will be opportune in view. of the approaching convention of teachers to be held in this city. These meetings have already been the means of doing much good by giving occasion for the discussion of matters comnected with the teachers' work. But it is of the utmost importance that the public shouid take an interest in thrm. They are, in fact, as much interested in education is the teachers themselves, and the more they crince this interest the more they encourage and strengthen the teachers and add to tite efficiency of education and the welfare of the taught.

## Medical Faculty of M'Gill Coilege.

LECTURK BY DL, GEOLIER hOSS BEFORE THE PAOULTY ON TILE ORRNINQ OF TIEE SESBION.

Dr. Ross delivered the following able and interesting lecture before the class in medicine on Monday morning, Ind Uctober : Gentlemen,-
The introductory lecturer of Westminster Mospital last year very truthfully remarked that he was sure both spenker and students would much prefor a days shooting to either giving or hearing an introductory lecture. This year the lot has unfortunately fallen upon mo to perform that duty, and I cannot say that I have accepted the honor with feelings of unmixed gratitude, but must endeavor to accomplish the task as best I may. To those of you who are for the tirst time here as students of this University it is my pleasant privilege to offer, on the part of this Faculty, a hearty welcome. To those who having been, are returning hore once more, wo beg to say that we are glad to seo you all again, and trust you come filled with the determination to continue the prosecution of your studies with renewed zeal and interest. Wo do not for a moment suppose that the long vacation since last session has been to you simply a continued rest or interlude from study. On the contrary, wo would believe that much of it has been spent in furthering your enquiries, and extending pour know ledge of the subjects entered upon during the earlier portion of ynur curriculum. Some of you, indeed, wo know have devoted much of this time to following the practical courses originated this year for the first time in our University in the form of a summer session. And here I would remark that tho institation of this summer session for practical courses and special series of demonstrations, was felt by the Faculty as imperatively called for, and I feel that the appreciation accorded it, as shown by the unexpectedly large attendanco, proves that its introduction lus filled a want which was beginning to be felt. The number of subjects included in tho study of medicine has been for some years back steadily increasing. The standard of proficiency demanded in any of them has also been continuously raised. Now, the effect of all this has naturally been to magnify to a large extent the amount of tochnical knowledge it is absolutely necessary to obtain in order to pass the required examinations. To accomplish this necessitates the employment of much time in the purely didactic teaching, with lectures and weekly examinations; and thus, agai st his will, the student finds ilimself to some extent obliged to give all his energies to the attendance on these and the mastering of their subject-matter to the exclusion of other more practical and therefore more interesting and ultimately instructive and truly educational subjects-those I mean in which he himself is the actual observer, receiving his knowledge directly from the application of his own senses, such as practical physiology, , ractical chemistry, practical clinic:al work, ophthalmology, dic. The time of the student now during the winter session is every moment so occupied by the acquire ment ol what he soon will need for the satisfaction of his examiners, that what does notimmediately bear on this is only too apt to be relogated to a later season, and then perka,s come ultimately never at all. And it is well to remember that science begins with the careful observation of facts and ends with the systematic statement of what is observed, and this is the order and the way in which the student is most likely to be allured into studious habits and into a scientific frame of mind. Gentlemen, it does not require that I should expand into any panegyric upon the profession of medicine. Your presence here to day of itself, is proof sufficient that you deem that noble profes ion one worthy to receive the devotion of your life. You are not indeed mistaken: the profes-ion of medicine aflords to its votaries-those at any rate who are true and faithful to her teachings-a sure reward for all the toil and trouble they may take to enquire into her mysteries. it is in its essence a combination of science and of art. The science, like all science, is illimitable-lays under contribution all irue knowledge in whatsoever depatment it may have come to light. The art is continuously progressive, always improving and endeavoring to furnish the means of kecying pace with the scientific requirements. Here, then, surely is a field large enough to satisfy the most ambitious for the employment of his talents and the occupation of his time. And then, consider the subject matter. What is that thus engages the attention of so many master minds of cvery community who
are always found onrolled within our ranks? Nothing less than tho study of men himself-man, in all his relations, social, moral and intollectual-as well as purely physical. It is the study of the development of that noblest work of God-who was actually made in the image of his Creator-of his develop. ment traced from the microscopic maternal ovum to the perfect creature in all his pride of physical perfection and towering mental suporiority. It is the study of the beauty, uniformity, ingenuity and marvellous applicability to iatelligent purpose of every separate portion of his wonderful frame. It is the mi. nute examination by cunning mochanical contrivances into the very minutest recesses of every atom of every structure of which these parts are composed. The study of the chemical composition of all these varied tissues and fluids, the study of the changes takin : place in this complex body as long as what we call life endures-the laves which govern changes and con. trol function, and ultimate in causing death; and after death the study of the appearances caused by promaturely $\mid$ erverted vital laws or found as a result of the great and universal law of finality. This constitutes the study of medicine proper, based upon a due understanding of anatomy, physiology and chemis. try. Did the world so exist that simply men a \& women were born, lived and died with constitutions perfect and minds and bodies obeying always the healthy laws of nature, the end being simply brought about by a gradual change in the structures and organs of the body-such as what we call old age-x say if this were the case, then rould there never have arisen the necessity for medicine or physicians. But this is not soand never will be. If it were, the studies of physiology and anatomy would then be followed simply for the obtention of knowledgo an 1 truth, and not with the viow, as now, of making such know. ledge subserve an ulterior purpose towards our race. In the carliest records of the human race we find evidences that disesse with all the pain and suffering it entails was not unknown. Besides. therefore, studying as mere diletlanti, the mysterious worlings of the human body through simple thirst for knowing, it is a matter of the most vital importance to all mankind to liave these mysterics understood and explained. The existence the. of disease has led to the development of a system of therapeutics, or means of cure, medicinal or otherwise-and to accomplish this this, we further require our armamentum or Materia Medica, which furnishes us with the necessary means for the accomplishment of that end. You should never forget that the chief end and aim of medicine is to cure and to relieve. Inmartine has well said, "Ia medicine guérit quelquefois, sou. Inge souvent, console toujours.' Depend upon it, the public will never tolerate us or pay us fees merely to stand by the bedside of those they love as mere soientitic observers, or a sort of Greek chorus, for although there be times when the highest wisdom is to hold our hand lest we rudely quench the strug. gling spark of life, it far more often happens that we can do much either to cure or relieve pain. But to do 80 pe must learn all we can, and must ever be learning. Again, "Prevention is better than cure." That trite and well-wornadage is undoub. tedly to be the coming watchword of the medical profession. You will at once perceive that I refer to sanitary science. It is not new. The Code given by Moses contains admirable sanitary directions. But sanitation, $i$ e., the ondeavor to preserve health, so that we shall not have disease to cure-long fell into disre. gar.l. Of lats yearis however, we all know what energy has been applied towards this most useful of all the useful branches of medicine. It is necessarily to medicine that the people must look to be taught the means for carrying out this desirable object. Medical men know more of diseases than other people do; they not only know much about the remedies that have to be employed, but they of necessity know much about the ways in which they may be prevented. Are they not then bound to use their knowledge for the good of mankind? Are they not bound to make that knowledge as perfect as they can? Sir Wm. Jenner, in a recent utterance, said: "No one acquainted with the present state of the Science and Art of Medicine will for a moment question that, to prevent disease, is its first and most important aim." And likewise. Sir Wm. Gull; "It is enough for us that diseases presail to stimulate our best efforts for their prevention, without our asking a question beyond." Besides, think for a moment what has already been acoomplished in this way. Iook at the discovery of vaccinstion, the preventive of small-pox, the most terrible and fatal plague that ever appearcd on the face of the carth. Ignorance and prejudice still exist against the reception of this inestimable boonnotably in this unhappy city of our own. But light must surely
come some day to the darkened minds of the dupes of the Coderrí school. A year ago the German Parliament passed a law making vaccination and re vaooination compulsory throughout the Enpire. Let us hope that this will give us soon tho unexampled epectucle of an entire country froed from this horrid pestilence by the wisdom and foresight oi its rulers, guided by the teachings of manitary science. The day will shortly oome when every one of you whom I now address will be in a position to help in procuring the passage of a similiar law in this country, and it will be your duty to do so, a duty you owe to the memory of Jenner. Again, think what the science of Preventive Medioine has done for sourvy, that deci. mator of the armies and navies of the world. It is virtually gone. Typhus fever has also almost disappeared, and we have a right to hope the day is not far distant when enteric fever Fill share the same fate. This Faculty do not include this branch amongst those compulsory to the student, and in doing this we have the support of the practice followed by nearly all the British Universities. It is well that this fact should be stated, because a recent attempt lus been made to discredit our curriculum on that account. The ultimate end of your study is to cintain a well-grounded knowledge of the three great divisions of Modical Science and Art-Medecine Surgery and Midwifory. They constitute the triple structure upon whioh you are to build, and it is to be erected on a triple foundation. Anatomy, Physiology and Chemistry are the three corner stones on which the erection is to be based Materia Medica, Medical Jurisprudence and Hygiens are in effect hased on and compounded of other sciences. Could you but have presented to you at once all the detsils of the work upon which you are about to engage it would indeed appear huge, colossci, impossible of attainment. Fortunately, you cannot thus grasp at once the entire range of subjects which you will have to traverse. But separate portions being successively laid before you, you will be able to seize them one by one and finally end by possessing more than at first your most sanguine enticipations would dave induced you to anticipate. Timber to timber, stone to stone, and brick to brick, must be gradually with toil and patience put together, the entire structure of your knowledge. Do not, then, allow yourselves to becomo faint.hearted at the load of labor that presents itself to view, but only lot its contemplation make you more earnest and determined to make good use of every moment at your disposal. I do believe that you need but little urging to work. But there are different ways of doing this work as every other. Done in one way the energies will be found to have been frittered and wasted, and the result to be comparatively small, whilst carried on after a difforent mothod s much greater result will surely be archieved by a similar expenditure of force. Work applied to soientific purnuits differs mach from that in letters pure. It has been well said that " learning and knowledge in Science, as in Life, are distinct: whereas, in the world of letters, learning and knowledge are one." In medi. cine you will quickly find that your books and your teachers are gaides only; you cannot depend on them exclusively. New problems in disease, caused by a never-cetsing change in the circumstances scting on the organism will speedily necessitate your lodging for yourselves. The best teaching you can have is that whioh loads you to educate your reasoning powers instem of stultifying them by artifioial tricks of memory, or other similar devices, which leave in the mind a verbal exis. tence onlv instead of establishing theroin some definite image. A recent periodical thus clearly puts this point: "A good or bad memory is a good or bad understanding. The fuculty of recollection, or the power of recalling a piece of knowledge when it happens to be wanted, is chietly a matter of method. It is useless throwing detached facts into the mind like loose pebbles into the sea. That is the way to lose them. Each point must be studied in detail, and when this is done, 2 host of subsidiary facts and conditions will be discovered connecting it to other facts of momory with which it should be haluitually associsted. These secondary qualities and properties form the strings of thought by which nature has ordiained that the lessons she teaches shall be recollected. Artificial memories are miserable substitutes for the natural connecting links of knowledge thus provided.

If instead of wisting precious time and equally precious brain. power drivings things into his memory, the student will devote an equal amount of energy to the full and exact comprehension of his work-for example, the facts and circumstances that determine the number, shape, and directions of the ridges on
a bone, or a foramina by which it is perforated, tho course and rolations of an artery, the number and distribution of the branches it gives off-he will not only have the subjects fixed more permanently, but he will acquiro so muok collateral information in this natural process of study that presently he will find himself making unexpeoted progress In short, it is good yolicy to leave the contingency of remembering alone and to concentrate the whole attention on the present duty of learning, with the warning consciousness that nothing is realiy learnt which is not thorougly understood." Modicine is advancing daily, and in such advance " the ultimate court of appeal is observation and experiment, and not authority," and. the sooner you educate yourselves to observe clearly and carefully, and to draw correct inferences from your observations, the more self-reliant you will become, the less liablo to be turned hither than thither by every new fangled iden in ${ }^{\text {medical }}$ doctrines, and the less servile a follower of some dominant theory or captivating teacher. "L'hommo," gays Paschal, "est visiblement faic pour penser; c'est toute sa dignite, et tout son mérito, et tout son devoir est de penser cumme il faut." Thus the more the didactic lecture system is sapplanted by the cons!ant concurrent employment of practical demonstrations and investigations in whioh the student himself is the active worker, the more true to its real purpose will the teaching.be. 'ro enlarge this sphere of education in the tendency of all progressive establishments for the instruction of students of medicine. In this College a large field is opened out to you by the ample opportunitios afforded in a carefully-conducted dissectingroom-a laboratory for practical chemistry-courses of practiodl microscopy, and a lange hospital, where clinical work is much insisted-upon. And here I would like to express a hope that before long our students may also be found in possession of an efticient physiological laboratory, an object which the present requirements of a complete medical education absolutely demand. Indeed it is not two much to expect that the Introductory or next s ssion shall contain an allusion to this addition as a then accomplished fact. Your aim then should be not to learn servilely for the mere purpose of knowing so much, but you learn so that you may be by 80 much the better educated. Even so, the absolute handivork of your profession must never be noglected. The habit must be acquired of being able to use your hands and to uso them well. Without this, when brought face to face with actual disease or accident, all youn hnowledge is in vain. A surgeon once pithily said of one os his dressers, "Me has learnt everything; he can do nothing." He alone is learned who reduces his learning to practice, and practical skill without learning degrades our profession to the level of the days of batber surgery and inediæval medicine I need hardly say that it is only in his fospitals that a student. can acquire this manual doxterity. Frequence and regularity in attondance at the hospitals cannot be too muoh insistod upon. Care, attention, and application to the work going on there cannot be 600 much commended. It is often quite possible to forecast the probsble future success as practitioners of medecine of the individual members of any class by an observation of their daily conduct in these respects. Troussean calls the clinique the copestone of medical study. I do not consider that. I detract in any way from the relarive importance of any of the other branches, if I permit myself to add a few more words to youon the subject of clinical study, in which I am myself more immedistely engaged. Frequent practice in hospitals wards, we have said, is absolutely essential for obtaining familiarity with surgical manipulations. So also similar, though different practice is equally essential for acquiring tha ability to instituto a practical diagnosis. The first requirement for an accurate diagnosis is to learn to recognive morbid signs. This is what you have to learn to be able to do, and it is practice alone, the constant exercise of one's own individual faculties, his sense of sight and hearing and touch and smell, which will ever make him proficient in the art. 'To be able to recognise morbid. signs you' must accustom yourselves to be boout and amongst sick people, constantly ramining, enquiring and observing. Book-iesrning alone cen never su ,00 to enable you practically to interrogate patients, to know and appreciate healthy and morbid physical signs and sounds-to handle and intelligently use our aids in physical examinations, the stethoscope-to estimate peculiar ities, mental and plyysical, of various individusls-to ascertain the true action and therapeutical value of various drugs-to be familiar with the pathological appearances presented by the luman frame diseased. All these and a thousand other things
can be acquired by exporience alone, and to enablo at student to obtain this experience he must frequent his hospital and must study medicine clinically. "When you aro young," snid the great Trousseau, "Iret your fiolds be the hospitals and the olinios, and when your knowledge has incrensed let the hospitals and clinics still be your fields of industry. By pursuing tinis jlan you will atiain expertness in your art knowing what scienco teaches and having the power within yourselves of originating" In former days didactic teaching had not been systematized, experimental investigations, morbd anntomy and reasoning therefrom were hardly dreamt of, but observation alono was trusted to obtain a stock of medical lore. To illustrate which, and to contrast with the education of tho present day, I may quote for you the following passage from it a book move than 200 years old, entitled "The Accom. plisht Physician, the honest Apothecary and the skilful Chirurgeon." It says:-" First, it's most necessarily req̧uisito our young student should be perfectly instructed in tho Latin and Greek tongues, being the universal keys to unlock all those arts and sciences, and no less a grace to tho future physician. secondly, being thus qualified for a student, he ought to apply himself close to the study of philosophy, for which Oxford and Cambridge may iustly challenge a pre eminence abovo other Universities fut because, according to tho first mastor, Hippocrates, art is long and life is short, he ought to ingage his diligence, to absolve his philosophical course in two years at least, and in the interim, for his recreations and divertise. ments, enter himself scholar to the gardner of the physick garden, to ba acquainted with the fretures of plants, but parti cularly with those that are familiarly prescribed by practitioners, to prevent being outwitted by the herb-women in the markets, and to enable him to givo a better answer than it is storied once a physician did who having prescribed maiden hair in his bill, the apothecary asked him which sort he meant. T'othor replied, some of the lacks of a virgin." Thirdly. Supposing our student to have made sufficient progress in philosophy, ho may now pass to Leyden, and enter himself into a Collogium Anatomicum. A proticiency in that part fits him for a Collegium Medigium Institutionum, and aftorwards a Collegium Practicum, and then it's requisite he should embrace the opportunity of fisiting the sick in the hospital twice a week with the Physic Professor, where heshall hear him cxamine those patients with all the exactness imaginable, and point at every disease and its symptoms as it were with his finger, and afterwards proposo soveral cases upon those distempers, demanding from every young student his opinion and his grounds and reasons for it, withal requiring of him what course of physic ought to be proscribed." lie then advises the student to live a year with an apothecary to learn compounding, to sojourn another year with a chirurgeon, so as to seo him dress his patient's wounds, and thus to acquire that art also. Ife must then visit Paris, Boulogne, Montpelier and Rome, and see the practice of the great physicians there; by which, he remarks, one will be raised far above those vulgar ones who have never felt the cold beyond the chimneys of their homes. Of this travelled and accomplished physician it is finally observed: "The vulgar will then be able to discern the differences between him and the ordinary churchyard physicians, who by their sordid deports and dangerous practices make it their business to ease the blind perple of the weight in their pockets, and plunge them into worse deseases" Now, gentlemen, 1 think I have spoken enough about work, let me say a word about its lawful opposite -rest. You, above all others, should remember that brain. work as well as all kinds of physical work or manua labor requires for its accomplishment destruction of matter. The one, therefore, no more than the other, can be continuous-the attempt to make it so, or nearly so, must surely and inevitably less to failure. Do not then fall into this error-it is one only too often made. Regulate your hours of study, so that they shall not interfere with a rational amount of suitable exercise ans ineeded reyose. Regularity and steadinoss at your work will always enable you to do this. The arrangements of the curriculum may appear to you in many respects unreasonable. They are not perfect. But bear in mind that the parts which seem to you to be faulty have objects which you may. not now perceive. Patiently endeavor to make the most of what appear to you its useless provisions. Your patience will often be tried by having to listen to what seems out of place accounts of departments of knowledge as yet quite unfamiliar. Do not "cut" lectures because you do not see their value. Endeavor to attend them regularly and to carry away as much as you
can, and you will find your subsequent work in other subjects us woll as in that department rendered easier. There are two kinds of students who are apt to suffer from overwork-one is tho oxtra diligent student, working hard and striving, it may be, for a prize. To him we would say-be careful, the last straw brcaks the camel's back. There is a limit beyond which ¡ot cannot safely go. The other is he who, having let slip precious hours as the session has glidod swiftly by, wakes up at last to the alarming consciousness that he must prepare to meet his oxaminers. To any who feel conscious of an innate tendency to slothfulness or procrastination we would gay-be diligent from the outset, and then at the end there will exist no necesslty for that excess of work against which we now would warn you. Work therefore, but also rest, and be sure yo $r$ effurts will be crowned with success. Manner is probably more looked to in the practising physician than in one of any other profession, and naturally so, because being frequently from the nature of his calling intimately and confideutially associated with persons themselves of refined and cultivated manners, anything less on the part of a medical attendant is necessurilv criticised, and is obstruotive to his success. Aim, therefore, to cultivate during your pupilage kind, geninl and considorate conduct towards each other, and towards all, which will surely mould such an habitual demeanour as it should be your desire to possess. Believe me, the age for Abernethian asperities is not the present-nor suppose that it is an indice. tion of a virtuous and independent mind to speak curtly, gruttly or unsympathixingly to the sick On the contrary, a kind word is always in place, and is sure to carry its own reward. I would conclude, gentlemen, by once moro bidding you all a cordial welcome, expressing a hope that this session will witness a continuance of the same mutual cordiality and confidence which has always hitherto characterized the relations of the teachers and classes of McGill University,-Montreal Gazelle.

## University lintelligence

The following is the award of scholarships and exhibitions at tho examinations held in veGill College, September, 1876 :Schor,arships itenable for two years)-Science. - Graham, J. II. * Donald, J. T. *Classics and Modern Languages-Hoss, J. 11) Exhibitions (tenable for one year)-Second year.-McLure, W. ; Eadie, R •

First year.-Lunton, S. W. [Ottawa Collegiate Institute] ; McKonzie, W. A. * [Upper Canada College]; Bull, H. J.: [Iligh School, Montreal] ; Iatheur, P. T. (2) [High School, Montreal]; Yarnold, F. M. (3) [Port Perry IIigh School]; Darey, J. I1. ( 4 , [High School, Montreal].

- Scholarships or oxhibitions given by W. C. McDonald, Eseq.
(1) Given by Charles Alenander, Est.
(2) Given by T. M. Taylor, Esp.
(3) Endowed by Mrs. Jane Redpall.
(i) Given by the Governors.


## Ianden Ealucational Association.

Yesterday afternoon, 2Sth Sept, the opening lecture of the season, in connection with the Ladies' Educational Association, was delivered by the Rev. J. F. Stevenson, in presence of a large audience. It was a thoughtful, scholarly and interesting address, upon Women and education. IIe spoke of the advantages of Education, and showed that women had a right to be educated. Naturally, our humanity was narrow in it: views, and especially was this the case with Fomen. There was a necessity for us all to be more broad in our ideas and conceptions of Truth. Too many of us, in our searches after Truth, were like the chicken, which, when it had obtained a grain of corn, ran about flapping its wings as if it had got everything. It was the tendency in life. We obtained posses. sion of a grain of Iruth, and then were apt to bore people, and become a nuisance to them. It was not because this fragment of Truth was not true, it might also be important, but the troublo was. We did not understand its proportions, and were unconscious of the vast well of knowledge upon which we had to draw. Education was a cure for fanaticism, and narrowness.

We had to study faithfully and thoroughly. Ire spoke of one Truth leading to another, illustrating this point by a reference to the study of Botany, which tie was glad to 860 was incladed in the course. By its study one not only became acquainted with the plant itself, but with many other things in connection with naturs's sohemes. Tru'hs were to be regarded not only as equally true, but of unequalled order and propurtion, Jducation not only inlluenced the intellect, but had its effect upon the whols human being. It gave patience instead of rashness, as in the case of a ligh strung boy, when he had one fact, he was ready to post off to the ends of the earth in search of another. But when he moquired the power of concentration he was master of himself, and when ho became able to master himgelf, as the Scripture said, he was greater than he that taketh a city. Self-mastory, self-governance, self-guidance were the fyal purposes of all education. Women's education had to be put upon a broad basis. He would point out one of tho special advantages of the education of women, and in doing so would give expression to one broad thought that one of the advantages of educating woman was that she might be able to take her place as a completely and entirely developed human being. Woman had the same right to be educated as man What intrinsio reasor was there why the power in woman's heart and intellect jiould not be drawn out? Why take a thing of beauty, a woman's mind, and say it should not have all possible culture? There was no beauty in feminine ignorance. Education was a source of retined, delicate, exquisite pleasure, for which woman had a special adaptability. Take the joy which accompanied the faithful study of languago. The student would hunt down a word to its source just as keenly and appotisinglyas the huntsman hunted his game, but with a keener feeling, the result being a fuller knowledge of the force of all words. 'Then the obtainment of a fact in the soience of Geology, what an endless source c! amusement wns it not? There was an infinlty of fact in Truth. As Dr Dawson would say, as mere fragment of rook, would give to a thoughtful person days, weeks and months of study. In its consideration there was first the rock and then the entire physical universe. Who would say then that the obtainment of knowledge was not better than tea, coffee cind scandal? Who would say it was not superior to an acquaintance with the fashions and with the accuracies of feminine dress? Was a man who gave all his time to fastening his neck-tie happier than he who gave himself to study? The daily and hourly study of literature, science and art opened up exquigite plessures and placed the student upon a pinnacle of delight as compared with ordinary enjoyments. He proceeded to enlarge upon the necessity there was for women being sultured as being the framers of social life. Man was ruled by the character of his home. Was it not then of the utmost importance that his moments of leisure should be spent in an ennobling and purifying atmos. phere? He believed it would be found that in the majority of instances men wlose life had been at a high pitch of culture had attained it by the aid of thoughtful and cultured home atmosphere. Sometimes in his cartur as a minister, he had thought, and it was a sad thought, that many men had not attained what they might lave done if they had not been held back by those at home who drew them down. Why should this be? Why should not womers be the noblest and purest, and most elevated of their husband's or brother's companions? Women must be educated, because a great part of the work of education was entrusted to them. A large proportion of the early and elementary education was given by women who had the governance of children in their tirst years. He instanced the power of nomen over the most unruly boys, as for instance in a Sunday School, where the males could do nothing with them. It was then essential that those who were to be the educators of those who should come after us eyould be themselves educated. Why should not thore be obtained in the earliest years of childhood, that which was often left to later years to acquire? It was Leibnitz, he believed, who had opened up this subject in his "Regions of Unconscious Thought." Sir William flamitton too, and Dr. William Carpenter in his "Unconscious Cerebration" had recognized that much thought was going on without our being thoroughly aware of it. I'he latent processes, the root thoughts whence emanated all the rest, came out of the thoughts of which we were not conscious. This unconscious thought, it might be, was laid for us in the early months of infancy. He had often thought that the greater part of education might take place before one was three or four years old. If 80 woman, of all others, was $\Omega$ most
powerful educator, and must necessarily have a sound, thorough and many sided education. He concluded by reviewing the different branches of the season's course, each of which ho commended in appropriate terms.

A vote of thanks was passed to the leoturer, after which the meeting was olosed.

The lectures of the Association commonce on MIonday.

## OFFICIAL NOTICES.



## Dopariment of Pialolic Instrition.

Quebee, 27 th Soptember, 1876. - ERECIION AND LIMITS OF SCHOOL MUNICIPALITIES

His Excellency the Lieutenant-Governor lias been pleased, by an order in council, dated the 13 th of July last, (l876), to make the following changes, namely :

County of Hochelaga, Village of Outremont -To detach from the school municipality of Cote des Neiges, in the county of Hochelaga, the territory known as the Village of Outremont, and to erect is into a distinct school municipality under the said name, and such as it is already erected for municipal purposes.
County of Nicolet, Sainte Sophie do Levrard - 'To erect into a school municipality the new parish of Sainte Sophie de Levrard, in the county of Nicolet, with the same limits as those assigned to it by the proclamation of the twenty third day of April one thousand eight hundred and seventy five ;
And by another order in council dated the loth day of September instant, 1876.
County of Temiscouata, Notre Dame des Sopt Douleurs.-'To erect into a distinct school municipality that part of l'lle Verte, coun y of Témiscouata, heretofore forming part of the parish of Saint Jean Baptiste de l'lle Verte, and now erected into a civil canonical parish under the name of "Notre Dame des Sept Douleurs."
County of Montmagny, Montmagny (village).-To erect into a school municipality the village of Montmagny, in the county of Montmagny, by given to it the same limits as those already assigned to it for municipal purposes.

## limits.

To divide the school municipality of Saint Clement do Beauharnois into two, one to be called the municipality of the town of Beauharnois, with the limits which are assigned to it by the Quebec Statute, 38 Vict. chap. 77, and the other the municipality of Saint Clement, which shall include the residue of the former municipality of Saint Clement de Beauharnois.

APPOINTMENTS OF COMMISSIONERS AND TRUSTEES.
Montreal, Cathglic.-Alderic Ouimet, esquire, M. P., continued in office.

His Excellency the Lieutenant-Governor has been pleased, by order in council, dated the 17 h day of August, 1870 , to make the following appointments of school commissioners and trustees, to wit:

## COMMISSIONERS.

County of Rimouski, Notre Dame du Sacré Cour.-7he Reverend Chs. Guay, Messrs. Paschal Parent, Pierre Parent, Josoph Pineau, junior, and Frs. Xavier Nadeau.

County of Two Mountains, Saint Placide.-Messrs. Ephrem Baby and Benoit Lalonde, vice Messrs. Zéphirin Raymond and Pierre Vaillancourt, going out of office.

And by another orderin council dated the 19 th of September, 1876.

County of Richmond, Danville. - Messrs. Georgo Short Carter, Augustus Edward Lee, William IOneyman, Joseph Lord Goodhue and Michael Lynch.

And by another order in council of the same date.
County of Ottawa, Wright.-Mr. Patrick Grace, continued in oftice, and Mr. JohnConnors, rice Mr. Moyso Petrin, whose term oftice, and Mr. John

County of Beauharnois, Sain Clément.-Messrs. Ls. Ant. Bertrand, Charles Boyer, Toussaint Lemioux, Octrve Dnoust and Michel loduc, junior, in as much as the municipality was not orected in timo to nllow of an the election.
County of Bonnventure, Paspebiac.-M Messrs. Jean Albert, junior, and Joseph Roussy, vice Measrs. Samuel Loisel and Elol Josoph, gone out of oftice.

And by another order in oouncil dated the 20th of September, 1876.

County of Beauce, Jersey.-Messrs, William Martha, Josoph Stafford, John MfoIntyre, John Inagnati and Jozeph Poulin. New municipality.
County of Charlovoix, Riviere Portneuf. - Messrs. Crysouil Desbiens, David Tremblay, Urbain Trombay. Germain Laroucho and Epiphane Tremblay. New municipality.
County of Two Mountains, Saint Josoph,-Mr. Frederic Derome, vice Mr. Pierre Lalonde, as no election took place.
County of Dorohester, Nain ${ }^{4}$. Malachie.-Mr. Praxede La.croix, vice Mr. Théodore Dutil. Election irregular.
County of Gaspé, Magdelen Islands.-- Kev. Chs. N. Boudranu and Mr. Alexandre Cormier, vice Messrs. Léon Poirier and Simon Richa.d going out of office. No eleotion having taken place.
County of Gaspé, Anse it Valeau.-The Honorable Thos. Savage, continued in oftice, No election hasing taken place.
County of Hochelaga, village of Saint Jean Baptiste.-Mr. Ferdinand Corheil, zontinued in ofllee, and Mr. Jèrémio Poirier, vice Mr. F. X. A. Coutu. No eleotion having taken placo.

County of Jacques Cartior, Cüto des Neiges.-Mrr. Zéraphin Boyer, junior, vice Mr. Félix Prudhomme, the latter residing no longer in the municipality.
County of L'Assomption, L'Assomption.-Mr. Nool Rivest, vice Mr. Narcisse Etu, decensed and not replaced by clection within the time required.
County of Pontiac, Bryson.-Mr. Julos Saint Jean, vice Mr. Andrew Noville. No election having taken place.
County of Quebec, Stoneham.-Mr. Patrick Cavanagh, vicc Mr. Thomas Martin, resigned, and Mr. Nichael Dunn, continued in office No election having taken place.

And by another Order in council of the same date.
County of Lotbinière, Saint-Sylvestre. - Messrs. Thomas McCaffrey and Antoine Lemieux, continued in otlice. The clection not having taken place within the time fixed by law.

County of Laprairie, Saint Constant.-Hubert toyer, esqui.c, vice Mr. Hormisdas Barbeau, who by reason of his advanced age could not accont the oflice.

## SCHOOL TRUSTEES.

His Excellency the Lieutenant Govornor has been pleased by order in council, dated tho 19th day of September instant, to make the following appoi..tments, namely:
county of Bonaventure, Hope.-MIr. Pierre Lecourtois, vice Michel Parisé, gone out of office.
County of Bonaventure, Cox.- Mr . Diaximo Joseph, vice Mr. Aloxis Dugay, gone out of office.

His Excellency the Lioutenant Goverror has been pleased, by another order in council, dated the 5 th of June, 1876 , to associate Peter S Murphy, esquire, of Montreal, to the Council of Fublic Instruction, vice L L. I. Desaulniers, esquire, resigned.

## BOARDS OF EXAMINERS.

His Excellenoy the Lieutennnt Governor has likewise been pleased, by order in council, dated the 20th of May, 1876, to appoint Damase Rossignol, esquire, M. D., of Kamouraska, member of the board empowered to grant teachers' certificates for the district of Kamouraska.

And by another order in council, on the 17th of August, 1876.
To appoint as members of the board of examiners for Rimouski.-The Very Reverend Edm. Langevin, Vicar General, Messrs. Arthur Prisque Letendre and Francois Magloire Derome, vice the Reverend P. Winter, resigned, the Rev. Mr Guilmette, absent, and Mr. J. M. Mudon, deceased.

# POITIT. <br> The Bald- Feaded Tyrant. 

HY MARY E. VANDYKE.
Oh ! the quietest home on earth had I, No thought of trouble, no hiut of caro; Like a dream of pleasure the days flew by; And Peace had folded her pinions there, But one day there joined in our household band A baid-headed tyrant from No man's.land.
Oh, the despot came in the dead of night, And no one ventured to ask him why: Like slav s we trembled before his might, Our hearts stood still when wo heard him cry;
For never a soul could his power withstand, That bald-headed tyrant from No-man'e-land.

IIe ordered us lere and he sent us thereThough never a word could his small lips speakWith his toothless gums and his vacant stare, And his helpless limbs so frail and weak,
Till I cried, in a voice of stern command, "Go up, thou bald-head from No-man's-lnnd I "

But his abject slaves they turned on me; Like the bears in Scripture they'd rend me there, The while they worshinped with bended knee This ruthless wretch with the missing hair;
For he rules them all with relentless hand, This bald hecded tyrant from No man's-land.
Then I searched for help in every clime, For peace had fled from my dwelling nons, Till I tinally thought of old Father Time, And low before him I made my bow.
"Wilt thou deliver me out of his hand, This bald-headed tyrant from No-man's-land ?"

Ohd Timse he looked with a puzuled stare, And a smile came orer his features grim,
" I'll take the tyrant under my care; Watch what my hour.glass does to inim.
The veriest humbug that ever was planned
Is this same bald head from No man's.land."
Old Time is doing his work full well-
3 ruch less of might does the tyrant wield;
But, oh ! with sorrow my heart will swell
And sad tears fall as I see him yield.
Could I stay the touch of thet shrivelled hand,
I would keen the bald.heul from.No-man's.hand.
For the loss of Peace I have ceased to care;
Like other vaseals I've learned, forsooth,
To love the wretch who forgot his hair
And hurried alons without a tooth,
And ho ruler me, too, with his tiny hand,
The bald-headed tyrant from No man's-land.

- (IIarper's Magazine for Srytember.)


## THE JOURNAL OF EEUSATION.

QUEBEC, OCTOBER, 187 G.

We have received a cony of the Report of a Comittee anpointed 9 November 1870, for the purpose of gaining information in regard to the Schools of Ayt established in the Cities of Boston and New-York. This Report is made to the members of the Council of Arts and Manufactures of the Province of Quebec, and we think it right
to give the following extracts therofrom showing the great utility and benefit to be derived from "Schools of Arts" several of whinh have been established in various parts of this Province.

## Importance of the study of Design.

An error generally fatal to the workman of whatever kind is to balieve that he must, or, at least, that he may without inconvenience, reneain in his ignorance; that this handiwork, a certain routine, a very limited amount of knowledge purely practical, effectively fill the place of conceptions of intelligence and protect him sufficiently against all competition. Although we put ourselves on guard against mere theories, we believe that there is no more salient danger than this complacent security of certain working classes, which, for some years past, has Deen at the bottom of all the strikes and of those intervals of ideness so disastrous for workmen's associations or corporations, and for commerce and industry at the same time. Intelligent labour is rarely without employment ; crises affect it little. Stagnation is never total or universal. In a moment of depression, the little commerce which is transacted is that of merchandise produced according to the best laws of taste and wholesonie economy, the price of rav material lveing otherrise equal. So also, a master seldom sends away his most skilful employees; the evil weighs only upon the less experienced, those who can be easily procured. Noreover, technical education to the advantage of the artisan is the prize of liberty, and even a necessity of the organisation of modern society.

In England in the time of Elizabeth, the Statute of Apprenticeship decreed that "No person should for the "future exefcice any trade, craft or mystery at that time "exercised in England, unless he had previously served "to it an apprenticeship of seyen years, as least; and," adds Adam Smith, "what had lefore been the by-law "of many particular comprations, became, in England, "the general and public law of all trades carried on in " marlict touns."
In France, the duration of apprenticestip raried according to towns. At Paris, the number of years of apprenticeship was generaliy five; but no person could become foreman or employer, in the greater portion of the industries, without having served five years more as journeyman, with the title of Companion. The author above-cited, Adam Smith, in his work, "Wcalth of Nations," observes that "The policy of Eurone occasions "a very important inequality in the whole of the advan"tages and disadvantages of the different employments "of labour and stock, by restraining the competition in "some emp!oyments to a smaller number than might "olherwise be disposed to enter into them. The $2 x \mathrm{clu}$ " sive privileges of cornorations are the principal means "it makes use of for this purpose."
As the question of artistic ability greatly interests industry, and it is of supreme importance not to 1 le deceived as to the means to be haken to impress upon it a scal of superiority, it is not, perhaps, out of place 20 recall in what terms the same econonist combats the systern formerly pursued in Europe; for if we are convinced that this system is vicious, it is necessary, nevertheless, to find a substitute, aud the solution of the question which the Council of Arts has proposed to this Committee becomes mory casy ; there will be no longer any reason for hesitating as to the urgency of the means to le taken for forming skifful artisaus:-
"The institution of long apprenticeships can give no " security that insufficient workmanship shall not fre
" quently be exposed to public sale. When this is done,
" it is generally the effect of fraud, and not of inability ;
" and the longest apprenticeship can give no security
"against fraud. Quite different regulations are recessary
"to prevent this abuse. The stetling mark upon plate,
" and the stamps upon linen and wollen cloth, give the
" purchaser much greater security than any slatute of
"apyrenticeship. He generally looks at these, but never
"thinks it worth while to enquire whether the workman
-. had served a seven years apprenticeship. The institu.
": tion of long apprenticeships has no tendency to form
"Youns people to industry. $\Lambda$ journeyman who works
"by the piece is likely to be industrious, because he
"derives a henefit from every exertion of his industry.
". An apprentice is likely to be idle, and almost always is
"so, hecause he has no inmediate interest to be other-
"wise. [n the inferior employnents, the sweets of
" labour consist altogether in the recompense of labour.
" * * The boys who are put out apprentices from
"public charitics are generally bound for more than the
"usual number of years, and they generally turn out
"very idle and worthless.
Whatever may have been the influence of modern ccononists on the relations between master and apprentice, it is no less true that these conditions are considerably changed, as well in Europe as elsewhere- The workingman has seen his favourite dream realized, the liberty of work, in this sense, at least. that the haw is no longer at hand to protect the monopoly of working corpo. rations and embarrass individual effori. But instead of the workshop, which the apprentice no longer follows but to acquire dexterity of hand, something else is accessary io be substituted for the lessons of long apprenticeship. Accordingly pablic schools sand gratuitous courses ofstudy, have been instituted. The secrets of the arts and industry have, in these courses, heen revealed to those who frequented them. At first the progress of the new system has been, perhaps, but litle fell; education, in fact is a seed of which the germination is slow and of which the fruit does not ripen in a year. It reguired generations to ronvince Europe that is.was necessary to give the worlingman an education corresponding to the kind of indus:try which he desired to follow, and to instruct him with reference to this industry especially. According to the acknowledgement of publicists who have given their attention to this important question the various govern ments of Europe recognise the fact that national supre. macy must in future depend more and more on industrial supremacy. "Immediately after the war with France," "says Professor Langl, :"the authorities of the various "industrial towns of Prussia were called upon by a cir-
"cular issued by the Ministry of Commerce and Ladus-
"try, to follow the example of France in the organization
"O Dravins and Industrial Schools; and their attention
"was directed to the industrial impor" ance of these
"schools and to the fact that they form the true basis of
"the wealth of France."
England itself, in the year 1851, at the time of the universal exhibition at London, apprehended the importance of the movement inaugurated in France. That Exhibition showed that England was belind her rivals with respect to products susceptible of artistic treatment and whose commercial value is, by this means, considerably increased. Profiting hy defeah England cast aside her former policy as to instruction, which was simply a laisser-faire policy, and set herself vigorously to work, in the hope that artistic instruction applied to industry might be reduced to rational methods, might be treated according to recognized principtes, and deternined no longer to abandon this kind of instruction. "We caunot make artists, nor even good designers by
dozens," said recently an English writer. "But we can "encourage the teaching which will bring to light " whatever ability there is hidden in this country and "maki all necessary preparations for that purpose. We "can exercise to a certain degree, by clementary design, "the eye and the hand of youth in the primary schools " of our cities, sufficiently, at least, to allow them to
"distuguish, in a certain measure, forms and colours,
"what is graceful and well-proportioned, what is harmo-
" nious and conformable to the laws of taste, from whit
" is not so. Even from a utilitarian point of view, this
"instruction is important to the workingman, because it
"enables him to understund and communicate ideasand
"views as to matters connected with his trade, by means
" of the pencil, and theanse it forms his eye and hand
"for the most delicite operations of his trade, and "enables him, when the necessity occurs, to make "diagrems and drawings of machines. It is not "necessary to dwell on the importance of forming "skilful designers and of assurint in this way a "character oi beanty as well is force and honesty in "workmanship,-in a country, which to succeed in its
" trade counts so much on the industries of the weaver, "the dyer, the printing of textile goods, pottery, porce" lain, metal works of all kinds, \&ic."

Germeny, whose industrial products are some times so exquisite aud find so advantageous a place in foreign markets, has Schools of Art in her principal cities, and sometimes in citics of secondary importance with regard to population. Austria, since her defeat at Sadowa, has entered resolutely on the way that leads to the improvement of her judustry by means of industrial education. The Vienna Expositio:I had for its chief object, it appears, to stimulate the Austriams by putting before cheir eyes what industrial education had effected in forcign countrics. "But," writes Mr. S. R. Koehler, the movement in " favor of artindustrial education is by no means limited "to England, France, Germany, and Austria; it pervades " all Europe,--lhe small states as well as the large. Even "Russia forms no excention; with the last eleven years " she has established various ar" schools modelled after "the Euglish, and it is said that they have 'greatly sti"mulated and improved the national taste. There is, "indeed, bat one opinion throughout Europe as to the "importance of art-industrial education, and as to the " wisdom of making it universal. In this connection it is "well to note that the methods adopted by Eurland for "promotin: lhis education are generally imitated. Even "France, so long the leater of the wortd in mathers of "art, has of late been taking lessons of her neighbor "across the Chamel."
With respect to the efforts mide by Ilusisia 10 introduce industrial edncation, Professor T. C. Archer, athiched to the Musenm of Sciences and Arts of Edinhurinh, having been preseat at the Polytechais: Exposition of Moscow in 15\%2, wrote: "Group No. 16 may he repre"sented as a manufactory of ornamental plate in silver " and silver gilh Besides a splendid display in whatmay "t be wermed the show-room, there are two very roomy "and well filted up wortishops, in which the artisins " may be seen working in the richly wrought and "characteristic Slavonic designs, which are so notable in at the plate produced in Moscow by the great firms of "gold and silver smiths. The schools of art estublished "about cight years igo, on the model of those at South "Kensingion, have, under the direction of Mr. Bowtolski "greatly stimulated amd improved the national taste, "and have especially led it to accept the pure Slavonic as models, of which ute imperial trensury in the Kremlin "contanis such an abuudiace of the best examples"
It was after having investigated the causes of the supe.
riority of the countries of Europe in the matter of industry that the linted States arrived at the conclusion that the only way to sustain foreign competition was to spread artistic taste among the masses, as well consumers as producers. A citizen of of Poston, who takes a lively interest in the Schools of Art in his locality, Mr. Clark, pointed out to us how opposed it was to the interests of the industrial population of the Uirited States to export falw colton to England tor the purnose of importis: it again to the United States under the various forms that it receives ir. the English worlshons. The American consumer, in fact, pays first, to the profit of a foreign mation, the expense of exporting the raw material to England, then the cost of fabrication in the English factories where the cotton fibre is converted into a raric15 of tissues which the art of the mannfacturer can entich wilh designs that inerease its commercial value. What is true of the exportation of Americin cotton to England is equally true of some of our own raw products, such as wood, llax, from which we do not gain all the profit that we could if our population had the means and the special hnowledge necessary to give the raw material the forms nuder which manufacture can pesent hem 10 commerce for applicalion to the needs created by civilization. Nor must it be lost sight of that the value of any product whatever is delermined as much and more, perhaps, by the market of the entire world ats ly the local malket, and that the Canadian manufacturer is forced into compretition with forejgn mamuacturers. This state of things is the result of modecin progress, especially of steam locomotion and the establisthment of telegraphic commanicaltion. The competitor, though absent and invisible in Canada, exists nevertheless. and at distances which modern stience has wonderfully shortened. The tiriffs may, to a certain degree, embarrass competition and protect an indigenous industry which is enjoving the fimid atlemps of infancy; they may prevent, in certain cases, the anatcur from procurns an articla of 2 crtu, a heatiful olject of foreign production, but they will seldna furce him to buy an indigenous commodity whieh offinds the laws of the beautifnl. "There is but one effective way;" says a man who has given much attention to the gueston with which we are dealhy, "for a "country to struggle arainst foreign competition in its " own market : it is to display as much taste and ability "in its own manufacture as the foreigner does in has." The great Frenelh economis:, Collert, who by no means hesitited to malke protective tands, said, more, than two centuries ago, "Taste is the most skilful of all the trades."
Without allowing ourselves to be led into a kind of ideas that every one can contest, since no one holds the future in his hand, may we not here, in passing. throw out a reflection which has, at least, the merit of a hope the realization of which would be a true canse of congratulation to humanity. For the Western World, our century was born in the midst of wars; the batte-field was its cradle. The governments, constanly anxious for the morrow, were almost continamy directing their athention to the proper means of assuring their existence against igeressions from without and in maintain their territoriai integrity. Has this state of uncerinimty at last ceased, at least for a considerable time? We might he indaced to belicere so, if we judged be the effors that these sovermments are making, especially for some years past to instruct the people in the arts of parace. Well, let the sommtries of Europe and the tanited States, with which we have commercial relations, devote to mdustry the half of the energy and activity of which they shewed themselves capable when they had a war in prospect, :mat the superiority of their products will be such that
we shall be the tributaries of their indastry during hall a century longer. In a race for stakes, indifference is a false calcution, and, as far as progress is concerned, to remain stationary is to remain behind.

In Canadi the cry has often been raised hat we must encourage industry, that we must protect our manufactures so as to retain with us our population and elevale the standard of public health. A nation of mamufacturers, however, is not a thing that can be improvised in a diay. Certain preliminary conditions are necessary, throngh the whole extent of the country, without which all legislation will remain a dead letter, every effort will ho: barren of result. One of these conditions is the instraction of the people in the direction of industry; the ereation of special schools where the workingmay may procure the knowledre which he aeeds to pratice his trade. The workshop in a new combly, may furnish to the workingman what is necessary for his daily subsis tence; progress in industry is intimately commeted with the derolopment of inteligenee and the constint acquisition of new hnowledre.

We will temmate this first part of our report by guoting to you a passage from a book published hy Mr. II. Krusi, brofessor in the Normal School of Osivero, N. Y.: "
"Besides the importance of design as a means of coluabion, the hinowledge of design is also of rreat praticien nalue in many of the circ mastances of life. The linowledge of destin is indispensable for comple he success in ahmost all the trades. He who cath reproduce at his idabls hy the aitl of the pencil, rises to the fromt "rank in his pmofrosiom. Whe han cs as well as executes. :c iud matually takes his places as leader and director:
"The carpemer who designs well becomes a foreman. and often cmough, an architect. The mechanic who "designs, ia many eases, becomes a successful inventor:
"To know how to draw is frequently a great help to to the farmer; he can thus make the plan of his hous:, adiph it to its surroundings and to the varous uses which it is to surve. Design enables him to desirvite - the particular vegelation, of which the name is unbinown to him, and the kind of insects which destroy - his harvests. Ite fashions his tools and implements, and communicties his thonghts to others in a multi" tude of cases where ordinary language would be pow"arless.
"In the various kinds of manufictures the workmen ": who have an aptitude for design and who draw skil "fully are allways in demand. For engineering and "architecture the knowledge of design is indispensable "to him who desires to practice in a professional mamer: : Even to those who are engaged in the learned profes"sions, design may be useful for various kinds of "research ; ind it always offers a source of amusement "during leisure hours."

## Value or Mcrchandise.

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"Manfachers involving skill and tosie are mone:
 ot they :ommand a higher price in the markel, if swo "regard only the time amilahor hestownd unon them. "I Brawn against brain in my fold of labor never di: "succ"sfully mantini itself. What can he done be: "machime, or by an animal, that is, ley mere lnute "strengh, we never cstem as we do work that cam h"done only hy the mind. White, therefore, the rude: " laborer carns his dullar the dexternas hatore cans

"much to support in heallh and comfort the rude" " laborer as it does the one who is slillful and artistic. "In the second place, rude manufactures not only have : the preference of the consumer against them, but. "transportation also puts them at a disadvantage. Erery. "one must pay for getting whatever he produces to " market: and the real market in which he sells is the "place whence come the producls he receives, directly, "or indirectly, in exchange for his own. Hence the "rude laborer who exchanges his products for the less
"bulky products of the skilled, artistic laborer must con-
:s tribute the most towarls effecting the exchange. By way
" of illustration, talie a Genera wateh that has cost the
"producer two hundred and fifty dollars by reason of
: its skilful workmanship; suppose fivedollars to be the
"expense of getting it to maliet; then tuansportation
"adis two per cent. to the original cost of the watch.
"But transportation would add twenty per cent. in the
"sase of a lwenty-five dollar watch. Again : take a
"Turlish rug that has cost the producer five hundred
"dollars hy reason of its beatuty, and another rug of the
"same weight, that has cost the producer only ten dollars;
"call the expense of transportation five dollars for each;
"one per cent. is added to the origrinal cost of the ruge in
"the first instance, and fifty yer cent. in the second.
"Bolder contrast might be named, but thes are enough
"to illustrate the fact that transportation even for great
"distances can but slightly affiect those manufactures
" which are the most desirable. In a word, it costs lint
:- lille to transport skill and taste, but much, compara-

- Lively, to transpori ignorance and raw material.
"In 1873, according to the statement of the $A$ merican
Consul at Basle, the watches sent from Switarrand to
" the United States were valued at $\$ 2,0: 0,10$ 's at the
"point of shipment. 'lo pay for them it would have
"taken in Illinois, say, $5,000,000$ bushels of corn. Now,
"as each party must pay, by deducting rom the home
', price, for geiting his own products to market: at what
". a disadvantage transportation, in the suppose case,
"would have placed the Illinois farmer! The Swiss,
"making no allowance for distance, would have paid no
: more for corn coming from lllinois than for the other
"corn coming ouly from France. Little wonder, ilien,
"that the Illinois farmer converts his corn into pork and
" lard, so far as possible, before sending it accross the
"Athantic, that he may put into his own pocket the
"difference in iransportation. Again : in 1873 the
* United States imported embroidered soods from Swit-
: zerland to the value of $\$ 2,095,234,-a$ call for $4,000,010$
" more of Illinois corn. Again, the same year and from
"the same country we imported silli and sill goods to
- the value of $85,224,116$,-a call for $10,000,000$ busisels
" more of IHinois corn : making, in round numbers,
" $19,000,000$ busliels of corn which would have been
"negessary, had the payment been made in corn, as
"supposed, to pay for three linds of slialled, artistic
" manufactures obtaned from little Switzerland alone is
"one year. Though without a porh yet hasSwitzerland
- by aneans of her skilled, artistic manufactures secured
"for herself a commerce larger, when compared with
:her population, than lhat of any of her continental
"neighbors. This astonishing feat she could not have
: accomplished with rude manufartures. Cost of trans-
"portation alone would have prevented.
"In the third place, shilled, artistic manufactures are " mose desirable than rude manufactures, since they
"give a better population. The population is better,
- because it is more intelligent, intelligence being the
". Irime condition of manufactures. It is better because
${ }^{2}$ it is more prosperous, has more money to spend in the
- procurement of all that is essential to the comfort and
' embellishment of life. Churches, schools, farmers, - gardeners-all share in the prosperity of the educated, "thrifty artisan. Compare the city of Worcester, Mass., ' full as it is of skilled workmen ol all kinds, with a cily whose mannfactures are rude, and the difference between the two will arrest the attention of the most casmal observer."
There would be little to change in the preceding extract to malie it applicable to Cimada. Who would dare to deny, for cxample, that, in our exchanges will roreigners, our woods play the part of the corn crops of Illinois? Nevertheless, wood is sus:eplible of a large variety of uses, and in some cases alteady. has been subjected to the processes of manufacture. Let this indastry receive in this coumtry all the development of whel it is susceptible, and not only shall we have created worl for our population, consequently wealth for our country, lut we shatl have also found the secret of preventing the rapid destruction of our forests.


## MISCELIANY.

Eniversity Libraries in Germamy.-The Illustrister Kalentar publishes the following statistics of the contents of tire university libraries in Germany : The Library of the Berlin University contains 115,000 printed volumes and 40,010 clarts. The Univer sity of Bonn contains 180,000 volumes, several hundred manuscripts and a large collection of maps. The University of Breslau has 340,000 volumes of books and 2,900 manuscripts. Tho Eflangen University has 110,000 printed volumes and 1,900 manuscripts, besides 50,000 treatises, 10,000 autograph letters and a collection of designs and engravings. Ths Freiburg University contains 250,000 printed volumes and 500 manuscripts. The Giessen University has 150,000 printed volumes and 1,205 manuscripts; that of Gottingen 400,000 printed volumes and 5,000 manuscripts; that of Griefswald 70,000 volumes; and that of lialle 100,010 volumes and 1,000 manus. cripts.
The Trniversity of IIeibelderg has 300,000 volumes, 70,000 treatises, 3,000 manuscripts, 1,000 charts, a collection of naps and another of engravings. The University of Jena has 10:, 000 volumes, and that. of Kiel 150,000 rolumes and several hundred manuseripts. The University of Konigsberg 220,000 volumes, in addition to about 50,000 double copies of books for the purpose of exchange. The University of Leipsic contains 380,000 printed volumes and 4,000 manuscripts. The University of Marburg has 120,000 printed volumes, but very fewmanuscripts. The University of Mrunich Contains 283,500 volumes, 17,500 manuscripts, 3,600 portraits and 3,200 medals. The University of llostock has about 140,000 volumes; that of Tubingen $\mathbf{2} 80$, (00 volumes, 60,000 treatisos and 2,000 manuscripts ; and t'2nt of Wurzburg more than 300,000 volumes and 2000 manuscripts. The library of the Strasburg Unirersity is said to contain 300, OVO, of riticin 5,400 relate to the history of Alsace, and about 500 manuscripts.
The Illustritter Kalendar adds that the library of the Vienna University contains 211,220 volumes and 83 manuscripts, and that the library of the Basle University contains $100,(0)$ jnrinted volumes, 4,000 nianuscripts and 180 charts.
The irt of Irospitality.-The Art of Ifospitality should be ns deroid of art as possible, and is well summed up in the folloring :

Welcome the coming guest; welcome him witha fer simple, pleasant easy words, without ostentatious cordiality, without gushing declarations of friendship ; without paralyzing his arm by an interminablo shaking of hands; rithout hurry or flourish or due anxiety to have his trunk carried up to his room, or sandwiching between every sentenco an anxious appeal to make himself at home; an appeal which usually operates to make one feclas much array from home as possible. Constantly taking it for granted, on the part of the host and his family; that one is uncomfortable, and that they must hurry about an, take all the responsibility and self-helpfulness from tho guest, thus depriving him of credit of common sense, is something
worthy of indignation; all the more so because politeness forbius the least sign of impationce. It is ill.bred, it is not decent. It is insulting to the guest; and he would serve him thereafter without coremony. And yet how "any of our well-meaning, and, in most cases, well.bred people fall into the error that unless theyare constantly on the alert, and establish a kind of ospionage over their guest, and watch his evory movement, lest he should brush his coat or take a seat for limsealf, they will be wanting in courtesy. The art of hospitality consists in putting the guest at his ease; and this does not mean telling him to be at his case. It consists in making him forget that he is a guest, and not in constantly pushing the fact before his eyes. And it also consists in leaving to him the exercise of his senses, and of responsibility, at least, so far that finding what he needs at his hnnd, he may help himself.

Fxtremes Meci.-There is a saying among men of business that the two worst paymasters are those who pay too soon and thoso who pay too late; that is, that extremes meet, and the excess of a virtue is as disastrous as the actuality of a vice. And so we find it in more things than the eager advance which throws the books awry, or the tardy settlement by which the business calculations of the firm are deranged. Take the two extremes of neglect and care for children as one illustration; do we not come to precisely the same result in the ruin of health and character, if the manifestation of that result is as different as the method by which it is attained ? The child who is brought up as if it were an exotic in a hothouse-who is not suffered to go out in the heat or the cold, the damp or the wind; who must not run because it will overheat itself, nor drive because of the draught; for whom riding is dangerous., ss the horse might run away, and all rough games are forbidden, as it might get an ugly lenock; who wears furs into May, and is well sifathed in flannel during the dog days; who goes to bed for a pricked finger, and is nursed for a head cold as the neighbour's child next door would not be nursed in a fover; who must not eat this, and may only eat that, and whose most irrational fancies in the way of choice and refusal are attended to as the infallablesigns of healtivy instinct ; who is not to be contredicted nor thwarted, denied or disappoint d; all of whose mays must be rolled amooth, its niche lined with cotton wool, its roses free from thoms, its life rendered exceptional and planned on 3 basis entirely different from that of other human liveswhat is the end of it all but enfeebled health, flocid muscles, inability to bear or to do anything unusual or unpleagant, and the most entire and intense egotism all through? No other result can come about from a manner of bringing up which leaves out of sight the educability of the body and the streng. thening of the faculties by use, which is founded on the idea that happiness and indulgonce sre synonymons, and that to learn the practice of self-restraint and self-sacrifice must needs mean to be moped and melanalioly.

The neighbour's child next door is brought up on totally different principles. As soon as it can walk it begins its little career of independence, and 10 get it out of hand and lot it find for itself is the chief desire of those clarged with its due care and fit development. It is early initiated into that kind of stoicism which learns to take wounds and bruises, tumbles and troubles, quietly, for it finds but the roughest kind of surgery when surgery of a kind is absolutely necessary, and no shadow of eympathy. The lino marked out for its education is "hardening"" and the principle is pushed to the extreme. Out in all wemthers-damp clothes not regerded, and ret fect laughed at as a good joke; the falling snow and the burning sun encountered with tho samo indifferenco; nothing short of absolute prostration by an illness with a decided name ensuring the mallest amount of nursing, and all the smaller milments of catarrh, headache, indigestion, and the like entirely ignored ; suffered to eat everything, nedgerow trash for the one, and the stickiest of "stick-jaw" puddings for the other; buffeted and tyrannised over, suubbed, jeered, worked, and under the harrow generally :-wo have as the result a constitution ruined by rant of care in the tender years, those years which make or mar the future indifference to others' sufferings' because of familiarity with its own; tho knowledge that the world is a bstllefield winere you must either give knockdown blows or receive them, where you must conquer or te conquered, and thought and careand compassion for others are all out of place, and impediments in your cam. paign, that is-a selfisluness as intense as the selfialiness of the
over.indulged. But the difference is that the one is passivesnu the othor active. The one is the selfishness of inability to bearwhat is unpleasant or to forego what is pleasant; the other the dotermination taught by neglect to get what it wants, no matter who wants, no mattor who suffers, having learnt by its own experience that heaven helps only those who help them. selves, and that tio weaker go to tho wall, while the strong take the crown of the causervay.

Extremes of overwork and underwork in service and oltices come exactly to the same thing in the end, for the amount of work done and the character of its doing, nand also its quality. The overworked, by reason of pressure, can give oniy that superficial brush over ugly places which keeps things fair to the lye, however hateful in truth; the underworked, for want of pressure, wax fat and idle, and put off to hours indefinite even the little that is laid on them; whereby it comes about that when that littie is perforce done it is done in s hurry and nearly as superficially as that for which tho best will in the world cannot find enough time. The faculties which are worn out in overwork mest out by insufticient work ; and here again the circle is complete by the meeting of extremes, and the whole round of wrong is traced in braad and unmistakable lines enough. Extremes of corrardice and rashness end in the same thing too-the certainty of running into danger and not getting out of it again Cowardice, afraid of every step, meets rashness which does not look beyond. The one forbears to take the leap out of imminent peril by which all would be saved-the other jumps without looking whore, and jumps into an abyss; this lets hirnself be destroyed for want of courage to risk a sprained ankle in trying to save himself-that daslees.himself to pieces for want of so much rational fear of consequences as would make a man sure of his landing.place befare he takes his spring. The coward dares not but buy when stocks are ic * for fear they will go lower still, and dares not hold when tict downward current has set in for fear the tide will never turn; the rash, sure of that turn to-morrow, buys straight off for the account, and when settlingday comes round burns his fingers so that they are never ablo to be healed again. The coward is afraid to advocate the plainest truth against the popular opinion of the true and plain; the rash thrusts every kind of untenable heresy down the throats of the strictly orthodox, then wonders that the reaction which his excess creates does as mu h harm as the adrocacy of professed partisans on the other side. The coward will accept brickbats without a murmur, and aubmit to all sorts of indignities whereby tyranny is encouraged and the wholesale respect tuc to humanity is disregarded. The rash will not bear the unsvoidable rubs of life by which the player at bowls must look out for rubbers, but fl ngs stones at shadows, and therewith sows a crop of armed men that pursue him to his hurt. At either end of the scale the two extremes meet at the same pont; and meanness of soul which bears injustice and oppression with bent knee and drooping head has no different effect on a in in's lifo from that excessive "spirit" which will not bear the necessary pains of humanity. In either case the man is overpowered; whether he submits without striking a blow for self.defence to the attacks of his oppressors, or invites his enemies to attack him by reason of the demonstration that he has made against them.

IIow often lus not the extreme of love passed into the extreme of h te, and sometimes, if more rarely, the other way? What changes in political creed, in re igious sontiment have carried men from one extreme to the other-from Colrinism to Unitarianiem; from Romanism, where everything was believed, to free thought, where everything is denied; and from thio fiery current of uitra Radicalism to tho absolute stagnation of the Conservative Rip Van Winkle. Again, when Very strict and vistuous people go wrong, how often they go wholly to deatruc. tion, not stopping half-way ike so many others, but fuifilling the whole r und without a break. Hitherto-they have been noted for a prudence that was prudery - a virtue that was extra to nature; nowthey go lieadiong down the broad rowd, and keep none of the terms with propriety which eren those whom once they would have spumed as children of evil think it good to keep. Where even the more th n shaky have some regard to appearance, and put fon the drag for form's sake, tho ultra virtuous gono over to the sinners go at a hard gallop down the hill-that terrible descensus Avcrni! and finish their journoy at the bottom the quickest of all. So, the drunkard turned temperate, beconies a teetotaller who vilifi s the man who was never $\pi$ dr nkard and yet is not $a$ teetotaller; for the sinner turned saint is sure to be as extreme as the saint
who has lapsed into sin. The man who las known the most poverty, if he becomes rich, despisos those of his brethren who are still noedy and unprovided, with oven more disdain than does ho who never know the want of superfluities, and whose purple is withouta rent or a stain; the City scrivener knighted teels prouder of his tinkling cymbal than the duko does of his silver trumpet, and the extrome of vulgar arrogance matches the extremo of highborn pride. So the world goes on; and for the most part mankind gives itseli up to these extremes, and finds it wise to show a tin. contempt for the golden mean and the middle way by which the unexaggerated guide their thoughts and direct their steps. But, just is frozen mercury burns the skin like lot iron, 80 do extremes on eith $r$ side, and on any question, for the most part lead to evil and ond in pain; and th. tulissimus itis is now as over to bo found in medio. - (I'rom the Queen.)

Early Rising.-Winy is it that folk who lik: to do a thing are not content to do it, and leave others, unadvised, to act for themselves? Why should they insist on putting everybody into their pint measure, and condemning all who happen not to fill it exactly ? This neculiarity is conspicuous in social habits, in the routine of every-day life. 'The man 'who confines himself to two meals in twenty.four imagin $s$ he has cause of grievance against the man preferring thiee or four meals. The woman who enjoys society and travel $f$ els uncharitablo towards the entirely domestio stay-at-homo body.

In noth ng is this trait more observable than in getting up in the morning, about which people differ so very widely. They who choos: to lie late are amiable enough towards those who believe, from a queer sense of hospitality, that they ought to welcome the darn; that the dawn would be distressed unless they should co oporate with it, and keep it in countenance for its premature coming. But the early.risers are not so kindly or so tolerant. If not positively inimical to the late lier, they greatly disapprove of him wholesome countel aga nst lis habit. Can any one tell why the mere fact of being up at or before daylight yields to a man an assurance of a moral superiority? What specific and shining virtue is there in leaping out of bed and drassing one's self in the dark? What crown of honour is couferred upon the fellow who, unable to sleep in the morning, bounces up betimes to advertise such incapacity? These be subtle questions, and their answers inhere in the mysterious root of thing. But there can be no question that the habitunlly early riser conceives that the 'Ten Commandments are conserved in lim, in addition to an ample system of ethics. When he appears at breakfast, he is very likely to ask those at table when they rose, feigning ignorance on so point on which he takes particular pains to be informed. Having been told that they rose at siz, or seven, or eight o'clock, $h$. invariably announces, with grand gusto, "Why, I was up tiro hours before any of you !" "Then he proceeds to patronise in a very lofty manner, the inferior mortals who are not ashamed to confess that they hate no prejudice in favour of getting up in the middle of the night. Nor is he content to enjoy this exalted triumph once, twice, thrice, or twenty times. Every morning he plumes himself anew, puts the same question, and cach time ad is to his moral worth and personal consequence.
What offence is there in sleep, that to protract it in the mor ing should be visited upon us so severely? Casuists have informed us that man is always sinning, except in sleep, which sho:ld therefore be ardently encouraged, whether before or after d.wn. Do the Seven Slcepers typify the Seven De dly Sins, or does the early riser design to bamboozle our theology? We suspect the latter, for he is an incomprelensible, wholy inconsistent person, who obviously thinks that his matutinal self. levation should atone for any and all other defects whatsoover. It is not sleep, but sleep in the morning to which he is hostile. He is fond of saying that we cannot be in bed too long hefore midnight, or too brieAy after daybreak. And then thero is some sort of iniquity appertaining to the be 1 . He himself tiill frequently get up at four or five o'clock, and, after dressing, descend to tho library or sitting room, throw himse f on the lounge, and be doxing in five minutes. He does not feel any shame for this either, although at brealfast he will bo ready to heclor his sons or brothers.in-law, who were at the same time inau ibly asleepoveriead for being livedeemable sl.ggards. It is noticeable that the early riser orten compensates himself for his greeting to the dawn by frenuent naps between that hour and his regular bed-time. He gets up, but only to lie down again; he is not up for all day; nor is there
need of it, in his judgment, after ho has performed the one important duty.

The whole matter lies in this: it is good for persons to rise early who want to do so, or who have sonething to occupy them, but they who have no necessity, and enjoy sleoping, ought to be privileged to lie abed withoutdiscredit or condemnation. This is rank heresy wearo aware, but we are averse to fanaticism even on this time- honored subject. Thereare virtues altogether independent of the hour of getting up, and some men who have slept late have gone to their graves with blameless records, and left large estates for their kindred to quarrel over. To get up merely for the sako of getting up is not of necessity a saving grace, and vices might be named-it is true they are deep and dark-which it will not expiato. Lato sleepers have so long been bullied and persecuted that they would seem to have earned indulgence. The inezorable early riser should compassionate them at last, and permit them to go to perdition, if they will, on downy beds of ease. Even if they be resolved to rush upon destruction from hair mattresses, let them rush, while he may seek absolution for non-interfo. rence by getting up for six months at two o'clock in the morning

It is well not to be beguiled by savis and counsels on the subject. Most of them had their origin in a distant era, and under conditions totally different from those now existent. Our remote ancestors went to bed early because there was nothing else to do. Their descendants of to-day go to bed late and get up late for very much the same reason. Country folk seek their pillow from sheer fatigue, from weariness, from want of mental stimulant. City people avoid their pillow, for at dark their recreation begins, and the joys of the night are poetio and manifold. The latterhalf of the nineteenth century is an age of gas-light, of midnight suppers, of nocturnal plea. sures, of turning night into day. He who goes to bed early cannot see the realities or the ghosts of the time, and to rise early would subject hiva to as splendid isolation, besides fitting him ere long for a sleep in the cemetery.- (From the $N .{ }^{2}$. Times.)

History in Schools.-Thero is hardly any department of education which las attracted more attention of lato years than history. A generationago it was almost wholly neglected. Boys were expected to learn the main outlines of Greak and Roman history; but the development of modern nations was ignored, even that of England being only superficially studied.

Two theories of the proper mode of teaching hislory are now frequently discussed. One is that a particular period should be selected for study, not the whole history of a peop!e or of the race. The other theory favours exactly the opposite course. The ground of the former is that if too wide a field is gone over it is impossible to interest young students. Their attention, it is insisted, is distracted by the mass of facts they must master, and as a rule they forget almost as quickly as they learn. On the other hand, a special reign, or a special series of events, may be oxamined with tolerable minuteness, and it is possible to form some degree of intimacy with the figures that stand prominently forward on the foreground. There is undoubtedily some force in this contention: but it overlooks one fact-that no historical period can be perfectly understood if taken apart from all other periods. Every one ought now to be familiar with the idea of the continuity of history. The best recent historians object even to the venerable distinction between ancient and modern history, nn the ground that although it may be of service in marking profound differences, it gives the impression tlat there was at one time an absolute break in human progress. It is impossibio. they urge, to point to a date when what is called ancient history stopped and modern history began. Each slades into the other, and the earlier have left their traces in overy important elements of the later developments. For a like reason an energetic historical school has longprotested against the custom of trenting the Norman Conquest as the true starting point of the history of England.

The chief blunder hisherto male in teaching the history of $a$ nation or race has been the attempt to impress on the minds of pupils far too many dry facts. Nost men and romen remember with horror the lists of dates they rere expected to learn at school : and they may be excused if they do not seo ans very great benefit that aprang from this overburdening of
the memory. What is really necded is not an onormous number of details, but an intelligent comprohension of the broader aspects of history-a general view of the direction of progress, of its leading stages, and of the great forces by which it has been effected. In no other way is the imagination touched by the subject and curiosity avakened and sustained. At the same time it is to the individual element that attention should be chielly directed. We all know that in the long run general causes are even more effiectual in producing change than the intluence of individual minds; but hiese causes can always be most forcibly suggested by the study of individuals. Luther did not really produce the Refornation in Germany; but acquaintance with his character and notivity forms by far tho best introduction to the study of that wast movemont or series of movements. The ago of Louis XIV is not summed up in him, but it is most readily understood if its main facts, so far as France is concerned, are grouped around his name. The dilliculty is that in using the foremost name of an ago in this way, ordinary schoolmasters are apt to overlook overythng with which it has no direct connection. Yet nothing is more certain than that history should include a reference to all the deepest elements of national life. It is not less important to understand the work of Michael Angolo than of Pope Julius II, or the works of Shakeupeare than that of Queen Elizabeth Politics, literature, art, and all other great departments of activity exercise more or less indirect influence on each other; and when the whole movement of $n$ people is studied, none should be left out of account. So long, hovever, as they are not the object of special study, they can of course be presented only in general outline.
there is one reform in the teaching of history which is urgently needed; and thant is its intimate association with geography. At present, maps are too often not referred to in connection with history, and when they are the reference is usually only to maps of the world as it is now divided. This is the source of endless blunders. A boy, for instance, hears of Saxony in tha twelfth century; he at once thinksof the Saxony of to day, and the chanoes are that he never quite gets over the confusion. Even when no absolute mistake results from the existing system or absence of system, it neglects anobvious mode or making the mind retentive. Every school in which history forms part of the course ought to be provided not only with maps, but with a series of historical maps ; and not a town or boundary should be named wilhout instant reference to its position. If this was done history itself would be more intelligently learned, and geography, now one of the dullest of studies to young people, would receive fresh interest. It will be all the better if, when geography is the direct subject of study, it should be illuminated by as many allusions as possible to historical associations.- (From the London Globe.)
Spectacle of the Heavens. - I had occasion, a few weeks since, to take the early train from Providence to Boston; and for this purpose rose at twoo'clock in the morning. Everything around was wrapped in darkness and hushed in silence, broken only by what seemed at that hour an unearthly clank and rush of the train. It was a mild, serene midsummer's night ; the sky was without a cloud, the winds were hushed. The moon, then in the last quarter, had just risen, and the stars shone with a spectral lustre but hittle affected by her presence; Jupiter, two hours high, was the herald of tho day ; the Plelades, just above the horizon, shed their siveet influencs in the east; Lyra sparkled near the zenith ; Andromeda veiled hor newly discovered glories from the naked oye in the south; the steady Pointers, far beneath tho pole, looked meekly up from the dopths of the north to their sovereiga.
Such was the glorious spectacle as I entered tho train. As we proceeded, the timid approach of twilight became moro perceptible ; the intense blue of the sky began to soften ; the smaller stars, like little children, went first to rest ; tho sister beams of tho Pleiades soon melted together; but the bright constellntions of the west and the north remained unchanged. Steadily the wondrous transfiguration went on. Hands of angels hidden from mortal eyes shifted the scenery of tho heavens, the glories of night dissolved into the glories of the dawn. The blue sky now turned more solfly gray; the great watch stars shut up their holy eyes; the cast began to kindle. Faint streaks of purple soon blushod along the sky, the whole celestial concave was filled with the inllowing tides of the morning light, which came down from nbove in one groat ocean of radiance ; till at length, as we reached the Blue Liills, a flash
of purple five blazed out from above the horizon, and turned the dewy tear drops of flower and leaf into rubies and diamonds. In a few seconds the everlasting gates of the morning wero thrown open, and the lorid of day, arrayed in glories too severo for. the gaze of man, began his course.
I do not wondor at the superstition of the nncient Maginns, who, in the morning of the world, went up to the hill tops of Central Asia, and ignorant of the true God, adored the most glorious work of his hand. But I am filled with amazement when I am told that in this onlightenod age, and in the heart of the Cluristian world, there aro persons who can witness this daily manifestation of the powor and wisdom of the Creator, and yot sny in their hearts, "There is no God"-Edwarcl Everett, at the inauguration of the Dudley - Istronomical Observatory.
Rest-Repose-Sleep.-One needs rest from cares, watchings, and mental excitement quite as much as from manual labor. Indeed, brain work is much more exhausting than mere bodily work. One mayset his physical machinery in moderate motion, and keep it in vigorous action, with brief stops to lubricato or feed, day in and day out, without exhaustion. Manual laborers, who do not dissipate, are invariably sound sleepers; while the writer, teacher, speaker, and thinker, is liable to wakefulness, owing' to his greater menlal activity.
The laboror needs rest, tool, and sleep to restore him; while the thinker needs these, and also a period of mental. ropose before sleeping, to establish equilibrium between body and brain. His mind must not be kept on a stretch. Tho mental bow must be unbont, or even his sleep will be fatiguing instead of restful and restoring. Watching night after night with the sick, and sleeping in snatches, is unsatisfactoryBesides, the duty of vigilance obliges the watcher to carry his or her patient constantly in mind, and this wears one out.
When possible, we slibuld so shape our course as to take enough out-of-door fresh air and physical exercise to bring all parts of our physical and mental machinery into harmonious action and give the whole ample time for rest, repose, and recuperation. Sound sleep is ' nature's sweet restorer.'. Lot us make sure of this, even though our food be insufficient. Good sleepers seldom go crazy. Poor sleapers are liable at any time to break down, get off the track, com nitindiscretions, become irritable, seek to injure others, commit suicide, or culminate in a lunatic asylum.
No exact rule as to the time one should sleep can be given. One is satisfied with six hours; another wants eight; and another ten Children should sleep from ono.half to three quarters of the time. Adults may do with less. Very few under cat ; very many under sleep.

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