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# McGILL UNIVERSITY, 

MエONTIFEAエ.

## PLBLIC PROCEEDINGS

of the mabtings of

## Coniocation for Conferining Degrees,

APRIL 1 st and 30Th, 1890.

MONTREAL:
1890.

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Much of the following is 'yased on the extended reports which appeared in the University Ginzette.

FACULTIES OF MEDHCLNE AND OF COMPARATIVE MEDICLNE AND VETERINARY SCIENCE.

The annual pubitic meeting of Convocation for the conferring of Degrees in Melicine, and in Comparative Medicine and Veterinary Science, was held in the William Molson Hall, on Tuestay, April 1st, at 3 p.m.

The members of Convocation met in the Library at half-past two, for the realing of Minutes, and closing the ballot for the election of lellows.

After which the members went in procession to the Convocation Hall, where the students and friends of the University were alrealy assembled. On the dais were the following, with others:-

Sir Donald A. Smith, the Chancellor (in the chair); Principal Sir William Dawson; Mr. John H. R. Molson, Mr. W. C. MacDonald, Mr. Samuel Finley (governors) ; Alexnnder Johnson, LL. D., Dean of the Faculty of Arts; Dr. Craik, Dean of the Medical Faculty ; and Dr. Ross, the Vicc-Dean ; lrof. Bovey, Dean of the Faculty of Applied Science; N. W. Trenholme, Q.C., Dean of the Faculty of Law ; Dr. McEachran, Dean of the Faculty of Comparative Medicine ; Dr. Stewart, Dr. Shepherd, Dr. Wilkins, Dr. Cameron, Dr. Mills, Dr. Girdwood, Dr. Gardner, Dr. Rodger, Dr. Grant, Dr. Birkett, Dr. Johnston, Dr. Finley, Dr. Ruttan, Dr. Baker, Dr. McEachran, Rev. Principals MacVicar, Shaw and Barbour ; Prof. Penhallow, F. W. Kelley, Ph.D. ; Prof. J. Clarke Murray, John R. Dougall, M.A. ; Prof. C. E. Moyse, Rev. Dr. Cornish, Rev. Prof. Scrimgour, Mr. Justice

Cross, Rev, Prof. Coussirat, Dr. Godsgen, J. W. Brakenridge, B.C.l.; W. Skaife, B.A.Sc.; P. Toews, M.A.; E., II. Mamilton, B.A.Sc.; J. A. MacPhail, 1. A. ; M. W. Hopkins, B.A.Sc.

Rev. Dr. Cornish then opened the proceedings with the usual form of prayer.

## FACUL'IY OF MEDICINE:

Dr. Craik, Dean of the Medical Faculty, presented his report, stating that the number of students attending wele:-From Ontario, 111; Quebec, 71 ; New Brunswick, 26 ; Nova Scotia, 20 ; Priace Edward Island, 11 ; United States, 7 ; Manitoba, 7 ; Nowfoundland, 2 ; British Columbin, ? ; West Indies, 2 ; England, 1; a rather cosmopolitan collection. It will be observed that the number this year is greatly in excess of former years, as the following statement shows. Dividing the period into decades, the Dean showed that sixty yenrs ago-in the session of 1829-'30-there were but thirty students in attendance :Students.
In 1839-40................................... 20
In 1849-50................................... 44
In 1859-60.................................. . 100
In 1869-70................................... . . . 141
In 1879-80.................................. 166
In 1889-90.................................... 261
It will be remembered that in ' 39 and ' 40 the rebellion occurred, and for two or three years the classes were closed. Only eight or nine years ago the University had almost reached the limit of its accommodation ; the class-rooms and laboratories were overcrowded, and students, unable to obtain ndmission, were forced to go elsewhere. Then it was that the Chancellor came to their aid-(cheers)-and enabled them to further extend their usefulness. The Campbell Memorial Fund had also enabled them to add to their class-rooms, laboratories and equipments.

Thoy had accordingly ondeavoted to increase the useful working of the institution. He felt that their offurta had bean fully mpreciated by the class from which their students aro drawn. But while cons. gratulating themselves they must fice a feeling of anxiety. They had seen one perforl of atagation owing to over-crowding ; that mast not ocenr again; they could not afforl it. 'They must keep constantly advaneing, and keep abreast of other institutions which are endeavoring to outatrip MeGill in the ruce of eflicioncy in medical teaching. Medical teaching is not a remunerative umplogmont ; melvancod methods have to be omployed with the forward move of the times. The new systom is largely, in fact altogethor, practical. The Dean felt sure that their wants only require to be made known to friend in Montreal to gain the help necessary to carry ou their work as it should be carried on.

Continuing, he said:-The following gentlemen, 56 in number, hive fulfilled all the requiroments to ontitlo them to the degree of M.D., C.M., from tho University. In addition to the Primary examination subjocts, thoy have passod a satisfactory examination, both written and oral, on the follewing sub-jects:-Principles and Practico of Surgery, Theory and Practice of Medicine, Obstetrics and Diseases of Infancy, Gymecology, Pharmacology and Theropeutics, Medical Jurispradence, Paihology and Hygiene —and Clinical Exnminations in Medicino, Surgery, Ophthalinology, Obstetrics and Gynacology, con ducted in the wards of the Gengral Hospital and Montreal Maternity :-
G. A. B. Addy, St. Johu, N.B.; C. A. Ault, Oshkosh, Wis.; C. B. Bissett, River Bourgeois, N.S.; E. J. Bowes, Ottnwa, Out.; E. J. Broderick, B.A., Freduricton, N.B.; C. H. Burritt, B.A., Mitchell, Out.; J. M. Campbell, Longuenil, Que.; J. W. Clarke, Tatamagouche, N.S.; P. J. Clune, Warkworth, Wis.; A. H. Coleman, Belleville, Ont.; F. G. Corbin, Bedford, N.S.; I. B. Curtis, Hartland, N.B.; T. H. Ellis, Pembroke, Ont.; D. J. Evans, Montreal, Que.; A. S. Gorrell, Brockville, Ont.;
T. J. Greene, Aplluton, Out.; H. D. Hamilton, B.A., Mont. renl, Que; N. M. Harim, Ormatown, quer; John Hayem, B.A., Richmond, Que: W, E. laketter, Copetown, Ont.i A. F. Irwhn, 'hathan, 'hit.; W. E. Jenkins, Complotell, N.S.; C. I', Jento, Mellville, Ohion D. N. Kere, Fordyee, Out.; H. D. Kemp, Montreal, que.; A, C. Leselie, Grand Porky, Bak,; A. A. Iawin, St. John, N.B.; (i, L., Liditll, C'oruwall, Out, ; A. (B. Morphy, B.A., Lomion, Ont.; O. Morrin, I'embroke, Ont.: E. A. Mulligan, Mymer, Que; M, W. Murray, Beachworl, Out.; M. X. Masdonali, Seotchtown, Ont.; F. Me Eown, Winmipgg, Man,; II. H. Mokiay, Pictou, N.S.; IV. E. Mokeohnie, Whmipeg, Mant; G. L. MeKee, Coaticook, Que; A. C, Mo-
 ton, N.B.; C. A. Mcalillun, St. גgnith de Dundee, Que.; C. 'T. Noble, Sutton, Out.; C. O'Counor, Woresster, Mass; A. J. Oliver, Cowansvillo, Yue; H. M. I'atton, B.A., Wimiljug, Man.; J. T. Renl, Wimilpg, Man.; W. Robertmon, Chesterfield, Ont.; Jumen Rus, Halihix, N.S.; H. R. Row, Quebec, Qum.; W. D. smbth, llantagret, Ohio; W. I. Telfer, Burgoyne, Ohio: F. E. Thompmon, Quebeo, Que.; D. De J. White, Montreal, Qure: W. A. Wilmom, Derhy, N.B.; H. M. Willinmson, Guelpl, Ont.; E.. H. Woxulrulf, B. A., St. Castharines, Ont.; F. S. Yorston, Truro, N.S.

He then read the lists of honour and passing in the soveral years, ufter which the graluatos came forward, and the degree was conferred by the Principal in the usual manner.

Dr. E. J. Howes then delivered the Valedictory on behalf of the graduating class.*

Dr. J. C. Cameron then addressed the graduates on behalf of the Faculty, as follows :-
It is the time-honored custom in this University for the Faculty to select one of their number to aldress a few words, in their behalf, to the graluating class. First, then, we congratulate you most heurtily upon the successful completion of your colleginte course. Four long years of patimen, stenily work, culminate to-day in your Doctor's degree. The parchment you have just received testifies that you have attained the standard laia down by the University, have fulfilled all her requirements, and are fit and proper persons to practice medicine-while you on your part, have solemuly sworn to practice your profession

[^0]earefully, honeatly and uprightly, The iliphoma you now holl is olle of whish you mey well hep promid, for in whatwover part of the civilized world your lot may he vant, you will find that the repmatam of your dima olfiter han preceded you, and will heaperak for you the conflidence of the pmblice and the respect of
 axiantued of your Alma Mater: low woll that you never give her canse to he ushmel of you. Torday in with you " redbetter day, marking a grent equeh in yonr liven. For four long yeara you have been toiling ul the hill, with "yom fixed uron graduation day, ax the great thal genal of your eflorts. Other renlitien of life have hero otherered or overshadowed hy the illo twhe reality of this-your degren has beell your summum
 the degree is yours ; you have dimated the hill, ranched the gool, but as yom low aromul, bo! the realities, remonsilifitien, powibilitios of lif. "n'"l out hefore you-your prompective is wholly ehanged, your lifeeclimb has bur brgun. Gon were students before, yon must be studenta still-you worked hard before, you must work haviler still. Toil, the hirthright ef mankimi, unust atill be yours, if yon nte not to he haggrils in the race. Under the careful gulance and supervision of your tenchers, the way has lwell marked out for yon, lea roughesen smoothed, your falturing stepastendied. Now you ure eut joman you must chone gour own road aul make your own pace; how far you will mange to push aloug will depend very mach upon the enwrgy, perseverance wid singleness of purpowe you haceforth diaplay, In welcoming you to our ranka we would remind you that our profession is one of intrinsie nohility and diguity. In it science and charity, kucolentge mod symuthy, akill and pity, go hand in hand, ministering to the sorrows and sulferings of hman kind. Its numals terem with deeds of heroinm, self. nacrifice and devotion. When pestilence stalks the earth, when panic and fear seize upon the prople, the physician will be fond at the post of danger, firm, frontressand faithtinl. When human pity may wipe awny a tear, human skill case a ${ }^{\text {mina }}$, or human sympathy comfort and console-there, too, will he he foand. Of all the brave and gallant deels by hand or sea, none are more truly great and noble than those of men who, amidst the horrors of pestilence, in the privacy of duily life, without the stimulus of excitement, $\rho^{\text {mblicity }}$ or hope of reward, have toiled without repose to assuage the misery of the sick nud dying, and at lnst without a murmur have haid down their lives for their fellow-men.

Such is our profession ; would you prove yourselves worthy of it , you must begin well, nud continue as you begin.

Your chararter must ever be above repromeh. Honor, uprightuesa noid litegrity mant twe the very weorp of your lives. Then to the Inwt of your ability you munt kerp well abreant of then thenes anil netrivn alwayn to twe nevomplimhed, coluented physicians. Thomgh now, no doulte, yom know everything mhout medicine that is worth knowing, you ennomt maintain that hapiry atate of affairn whelout comatant diligent atwoly.
 ear, and tonch; linventigate every vane thoronghly and nywtema. tically; ohmerve overythingo commidering nothing two trivial or mininto. Study the lawn of eanse and effect nul apply them in your daily praction; comadder ench tame an a problem yom aro called upous to molve, Study ont earefinlly and entimate at ith preper vilue the peramal factor: nim to trent your justient, not him diwenme, and you will find the prastien of madidine all ato. morhing, faweinuting atwidy, a neverffiling noure of pleunare anill gratificution, the lient nutidote to jealonay, ieritation and querubon dincontent. 1 pray you, do not allow yournelven to dogenerate finto the routine practitioner. Such a mana cares very little for principlen or deductionn cherefrom-the prewerip. tion in himgreat atand hy-anil with a precketful of them he in armed for any emergeney. He pown an a practical man, no theory or nonmense about him. While you ntuly the cusea which come umder your eare, do not full to acquaint yourvelvea with the reault and opinionn of others. Attend medical mocietiea and conventions, for there you come in contact with fellow. workers of riper experience, and mutual henefit is derived from criticiming nud being criticimed. Real diligently. Rend the current journals, they giev you the lateat newn from the front ; the ploncers of thought, the original workers and investigators are there, liko pieketa nad skirminhern, apying out the land. At all events, it is news from the front, of abmorbing interest, though subject to mueh alteration and correction, and not always trustworthy. In the text-booka you flan the nolid ground that has been won.

In the practice of your profession you have certain well-defined duties to your patients-there is, in fuct, an implied contract between you. They, on their part, place confidence in you, and trust you. In your hauds are placed, sometimes, health and happlineas, honor and reputation, the issues of life and death. You, on your part, in accepting such grave reqponsibilities, are bound to possess and maintain a competent knowledge of your profession, to devote due care and attention to your patienta and exercise your best akill. In your professioual relations, you will be a dmitted into the privacy of the family circle ; in sickness the socicty mask is off and you will see poor
humanity in all ltw waklowem. You will know the sladown that darken many a home, the hidden morrown that ambitter
 committed to your eare. And thu nut mily the livem, but offel the prompeotwand fortumem of individuaina, the paws, honor and happinems of famillem, ant even the welferio of the sommanity may reat in your handa. L'pon your prolonor and eantion groat interenta may hang; heware how you betray them. Remember, tox, that the prewonal factur "nterm very largely linto the prohlem of nacevan. By your patienter you are valued not only for gour medical skill, but alwo for ther refreationg or soothigg influence of your own permanality $\rightarrow$ a gente masner, n gentle voise and myupathy apo potent factora in the cure. While youn merive to the akiffin in your phofinsion, do not forgat that when human akill is of ne mope avail, sympatigy and kimido neen may temper a how vom annmit wari off, or lighten a sorrow your cannot avert. Bo honorable, honast, upright; a sympathetio listener, a wisp comusillur; lint a gossip, a talo. hearer-never. Strive to the a ray of sunshine la every home: lot the siek bighten at your antrance; let tha little onee long for yome vixita; then when your lifeowork is drawhg to a clow-when you wri old nand gray-men nad woman grown, whom yom have wateled anil teaded from infancy, will love amil revere you, aul eluriah your memory in the tenderent esterem.

Whan yous hegin the practice of your profenaion, you will be at once thrown into contact and computition with other medienl min. Romember, gou are fellow.workers; let no anseemly rivalry or jealonsy mar your friendly relationn. Follow atrietly one conte of ethicm, fur it is nothing moro or lewe than a practical application to medical mattera of the golien mule in ita negative form-1), net unto others shat which you would not have them do muta yon, the modest in your deneanor, exprectally to older m"ll-prongs they may not be an well up an yourselves in the linest teachings of the schools, but from bong personal observation nad experience, they have gnthered rich stores of knowledge which no mere book lore can give, and which you unst work many genem to acquire. Do not forget that there is often room for honeat difference of opinion. We sonnetimes hear it said that doctors differ. Of course they differ -and no do all men who are not mere machises; men who reflect weigh evidence, balance probnbilities and use their own judguent and common seuse. The clergy differ, lawyers nad judges differ, philosophers, men of science, politicians, politi al economists, thoughtful mene everywhere differ-and so do doctrits. Not only is there toom for honest difference of opinion, there
is room nlm for honest differeace in treatment. You wish to go from McGill Col ege to the l'ost Office ; you have your choice of many different rays, each of which will eventually bring you to your destination. Sn you will find in praetice, the samen end may be necomplished in many different way, the ultimate choice of methol being largely a question of taste and tact on the part of the practitioner
Besides our more immedinte duties to our patients, there are other indirect obligations none the less binding. From the past wa inherit the accumulated knowledge and expretience of ages; it is incumbent upon us not only to transmit this goodly inheritance unimpaired, but also to contribute all we can to incrense the store. Seience entrusts us with various talents; in return she demands from us a profitable service. The best men in the profession everywhere consider it one of their first duties to record for the bendit of the profession, their eascs, methods and results. But some of you may say, it is all very well for the city men, with their great hospital and other advantages, to do original work and advance the cause of science, but what can be expected from a poor country practitioner, isolated from converse with his confreres, with limited experience, few hooks, scanty means and opportunities all too few? No man's lot is so humble that he caunot cherish the scientific spirit. Your books may be few, but the great book of nature lies ever open; rend thoroughly the feu lines or chapters sprend before you, and by mere concentration of attention you may discover therein a hidden meaning, undetected by those who perforce must skim from page to page. The country practitioner has one great advantage over his city confrere, he has time to think. The rush and whirl of city life is fatal to steady fruitfui thought, and we ind that many of the brightest discoveries of scientios medicine, are the contribution of quiet, thoughtful men, with limited opportunities, but imbued with the acientific spirit. You are beginning your career in a time of unusual scientific activity ; chemistry, experimental physiology, pathology, and pharmacology are rapidly changing the aspect of practical medicine. Sanitary science and preventive medicine offer specially rich fields for original research. The problems are legion, and demand for their solution carefulness of observation, a ccuracy of thougbt and soundness of judgment. Every one of you can do something. Above all, have faith in yourselves, have faith in your art. Let a firm abiding faith be the mainapring of your praetice. No human theory is perfect-science and art are progressing, improving. Be ready to abandon the old whon proved false, to accept the new when proved true. But do not
throw away the faith you have, untul you are sure of another to take its place. An ittperfect, defective faith is far better than no faith at all. It is, after nhi, wery ensy to pose as a sceptic or iconoclast ; to snewr und rail at prevailing leliphonnd practice ; to profess diahelief in the efficacy of drugs, and the possibilities of nature, scieuce med art. But such a mental attitude betokens weakuess, not strengiti--conceit, not knowledge. I heseech you do not join the ranks of the medical nihilists; the man without faith in science, in his nort, or himself, is like a ship without bullost or rudder.

Non, fualiy, you have some duties to the University. Hitherto you have been students of medicine, your chief allegiance has been to your own professors. To day your Alma Mater enrolla you among her sous, and sends you forth into the worid, bearing ier name. In all her departments, she has claims upon your lifor-long interest and sympathy. While her reputation is in a manuer your reputation, and her success your success, do not forget that in like manner your reputation is her reputation, and your success her success. Strive to be worthy of her-guard well the charge this day entrusted to your care. According to an ancient Jewish legend, the patriarch Abrahum wore upon his breast a jewel, whose light raised those which were bowed down, and healed those which were sick. And when he died, the jewel was set in the heavens, where it still shines among the stars. May the badge conferred on you to-day be as mighty as the patriarch's jewel of old, and if you guard it untarnished to the very end, your names will shine forever among those sta:ry hosts to whoru the eyes of humanity ever turn with admiration, gratitude and love. Go forth, graduating class of ' 90 , bearing nloft as your banner the motto "Excelsior," ever onward and upward, and may success attend your efforts. In the mume of your professors, in the name of the Uuiversity, Godspeed and fare you well.

## FACULTY OF COMPARATIVE MEDICINE and veterinary science.

The Principal announced that the Corporation had been pleased to inaugurate the new Faculty by granting the degree of Doctor of Veterinary Science, honoris causa, to Professor Duncan M. N. McEachran, the Founder of the Veterinary College and the Dean of the Faculty. The degree was then conferred.

Dr. McEachran then read the lists of candidates for Graduation, as well as the lists of Honurs and Prizes, and called up the candidates for the degree.

These were divided into those who had in previous years taken the certificate of the Veterinary College, and those who had passed in the recent examinations, as follows :-

## FROM PREVIOU'S SEBSIONS.

Austin, K. D., V.S.; Baker, Professor Malcolm C., V.S., Montreal ; Ball, E. P., V.S., Stanstend, P.Q.; Becket, Geo. C. V.S., Montreal ; Bryden, Williamson, V.S., 36 Sudbury St., Boaton, Mass. ; Clement, A. W., V.S., Baltimore, M.D., U.S. ; Couture, J. A., V.S., Quebec; Craig, Wm., V.S., Cornwall, Ont., Danbigny, V. T., V.S., Montreal ; Dawes, M. A., V.S., St. Anne de Bellevue; Dillon, Gerald P., V.S., Toronto, Ont. ; Dyer, Charles E., V.S., Sutton, P.Q. ; Goddard, A. J. G., V.S. ; Hall, Wm. B., V.s., Quebec, P. Q. ; Harris. A. W., V. S., Ottawa, Ont.; Harris, James G., V.S., Duluth; Hinkley, Nelson P., V.S., Butfalo, N.Y.; Hoare, Edward ド., V.s. and M.R.C.V.S., Cork, Ireland; Jakeman, William, V.S., Halifax, N.S.; Lemay, Daniel, V.S.; Lyford, C. C., M. D., V.S., Minneapolis, Minu., U.S. ; McCormick, Archibald, Y.S., Ormstown, P.Q.; McEachran, Professor Charles, V.S., Montreal ; McLellan, Frederick W., V.S., Bridgeport, Conn., U.S. ; McWhinnie, Hy., V.S., Troy, N.Y., U.S. ; Miller, John A. V.S., Storm Lake, Iowa ; Munro, Malcolm, V.S., Lancaster, Ont. ; Mylne, R C., V.S. ; Ormond, Chas. H., V.S., Milwaukee, Wis. ; Parker, John M., V.S., Montreal ; Sangster, Geo., V.S., Huntingdon, P.Q. ; Simphon, Martin W., V.S., Greenfield, Mass. ; Skaife, F. W., V.S., Montreal ; Smith, Heury D., V.S., Montreal ; Thomas, Flavel S., M.D., Ph.D., V.S., Hanson, Mass.; Torrance, Frederick, B.A., V.S., Brandon, Man.; Wardel, Walter, V. S., Aqueduct St., Montreal ; Wroughton, Theodore Ambrose, V.S., Fort McLeod, N.W.T.

## SEssion of 1889-90.

Crossman, Geo. E., Brushton, N.Y., U.S. ; Darling, Andrew, Montreal ; Hayman, Julian M., Boissevin, Man.; McGlue, John, Lynn, Mass., U.S. ; Mills, Profensor Wesley, M.A., M.D., McGill College ; Scanlan, Henry, Montreal ; "Scott, James F., St. Michel, Montreal; Walsh, R. N., Huntingdon, P.Q.; Willyoung, Lenter E., Albion, N.Y.

[^1]Dr. Scanlan was then called on to read the Vale. dictory, and the Dean addressed the graduates :-

Before addreasing himeelf apecially to the graduaten, he referred to the branches of scientific study to which his Faculty was devoted, and traced the rive of Veterinary Soience from the earliest time, until now it is coupetent to rank side by side with human medicine. It embraced the atudy and comparison of the anatomy, phytiology and dieeases of animala, with those of the higheat type of animal-man. Of necessity, the stuiy was confued more particularly to domentic animals, in which field of atudy they had a ruost comprehensive one, when it was oonsidered that medical science, in all its coliateral branches and aub-diviniona of atudy, had to be considered in relation to the ditiorent clasees of domestic animals. Looked at in a atill broader light, wheu we consider that in Camada alone there are about $1,165,288$ horses and $3,866,479$ cattle and other horned animals, worth, in the aggregate, say $\$ 200,000,000$, und repre. senting no small proportion of the country's wealth, and knowing, as we do, that everyone of these animals is, like ourselves, liable to accidents and dieeases, many of which are preventable, many curable, surely the ministers to these animals in sickness, from a pecuuiary point alone, ought to be men well grounded in medical science. Day by day the sciences of Human and Comparative Mediciue were becoming more closely united and more and more dependent upon one another. The day was not far diatant when a course on Comparative Medicine would form a part of the curriculum of every medical school. He next paid a glowing eulogy to McGill College, which had doue so much for learning throughout the country.

Speaking to the graduates, he anid:-Gentlemen,--You have now completed the curriculum prescribed for you, and have been admitted to the degree of Doctor of Veteriuary Science. This you have gained after a hard course of study, and having passed most searching written and oral tests, by independent examiners appointed by the Covernmeut, as well as the exami. nations prescribed by the University.

Presumably, therefore, you are qualified to practice; I believe you to be so. Your examiners declare you so, this great University announcea you so. Now, gentlemeu, do not imagine this memorable day in your lives is to mark the end of your studiea; by no means.

During your pupilage you have had but little time to familiarise yourselvea with the literature of your profession other than your text-books. It will now be your duty to do so. To keep pace with the rapidly-evolving science of Medicine, you must
be conatant readers of acientific journals and new publications, not alone those disectly bearing on your own particular profeasion or science, but on all co-lateral subjects. There is no profession which requires in its members so varied a store of general knowledge ns does yours.

In the daily walks of life you will come in contant with all classes of aociety, and all degrees of rank and atation. You will be exprected to have a general knowledge more or less extenaive, and be expected to engage in intelligent converation on almont every conceivable sulject which happens to be of particular interest to eash apecial client. Thun, the advanced farmer lends you into discuasions on "Silos," on feeding atnad. ards, the relative merits of this or that breed of eattle, horses, sheep, or swine.

The sporting man imagines that you should know all winners and pedigrees of noted horses. The politician expects you to be thoroughly conversant with the bills before the house, and will be surprised if you admit that you do not wade through Hansard regularly.

It is your duty, therefore, to be a atudent of everything around you; be observant, and gather information from every source possible. Make it a habit, on every occasion, when you are asked for information which you caunot impart from want of knowledge, note it down, and go to your library and inform yourselves of it for future use. So in your practice acquire a habit of noting casen, record every case of more than pasaing interest, and study the subject carefully, read every available standard author on it, and in the light of knowledge so obtained, applied to the case under observation, you will soon become masters of your profession.

Never miss an opportunity of making a post-mortem examination; nothing aids a man so much in making a correct diag. nosis as the repeated corrections and errors disolosed by a postmortem examination. Never waste a pathological specimen, think how much good others may gain who succeed you as students of Comparative Medicine, from even one specimen, accompanied by a carefully recorded history. Museum specimens, accompanied by histories, are of great service in illustrating didactic lectures.

In your practice acquire the habit of carafnl clinical inapection, and ever remember that your patients, though dumb, are in all things like as we are-they hear, see, feel, smell, taste, suffer pain, and enjoy pleasureable emotions juat as we do. Deal with them in the full consciousness of these facts. Do not frighten them either by voice or look, never cause even the alightest pain that you can prevent, and never nauseate them
by medical combounds such as you would consider it barbarous in a phyaicinn to prescribe for yoursulf.

In aurgical operatious, do not forget the aentient nerven which ramify in every part of the body, employ every means in your power to lessen the suffering in necessary operationa ; ton little use is made of the valuable discoveries applied to leanen human suffering-local and general amesthetics.

In your fees le moderate-ly no means undervalue your profeasional services-but be satisfied with fair, monlerate charges.

Acquire prompt business hahits, keep engagements punctually; nothing drives friends and clients awny so quickly as inattention to engagements.

Collent your accounts regularly, pay your own debts promptly, and avoid debt as you would a quicksand.

Gentlemen, in going out into the great world, do not sup. pose that you will not have to meet with opposition and discouragements ; but meet them manfully ; and let me assure yon, that with your scientific attainmenta, and by unimpeachable conduct, by industry, sobriety, and fair dealing with all men, you need have no fear for the future.

The importance of your profession is daily becoming more and wore understood ; if you fail, blame not your profession, but blame yourselves, and never forget that, mader no circumstances, can your profession disgrace you-but you may disgrace your profession.

Choose for your companions those only who are enlightelued and refined; let your reading and your conversation always be elevating in character.

In all things be gentlemen; live as gentlemen, talk as gentlemen, and dress like gentlemen.

Much more might profitably be said on your duty to yourselves, to your clients, to your profession, and to your Alma Mater, but time forbids.

In conclusion, therefore, gentlemen, on behalf of your teachers who, we trust, you will cousider your life-long friends, I say to you " God-speed." We send you forth into a wide field of scientific usefulness, in which we trust some of you, at least, will become eminent and succ:ssful men, honored and respected by your fellows and confreres. We will watch your progress as fathers do their children, and never forget that we look to you, who are the first University graduates of this Faculty, to uphold the reputation of your Faculty, and this great University, of which it forms a minor part.

In the name of the Faculty, I beg to tender our thanks to the Provincial Government for their liberality in continuing to
give us an amamal grant, to those gentiemen who constitute the Board of Examiuers, who have travelled long distaneer, in order to assiat us, and to this great assembly, for your patience in listening to these remarks.

The Principal congratulated the Convocation on the successful close of the Medical Session, and on the accession of n new, vigorous acd useful liaculty to the University. He exprescod regrot that a representative of the Provincial Government, who was expected to honour the Convocation by his preaence, had been unable to attend.

Rev. Principal MaoVicar then pronounced the benediction.

## II.

## FACULTIES OF LAW, APPLIED SCIENCE, AND ARTS, (April 30th.)

In view of the expected presence of His Excellency the Visitor, it was decided, some time ago, by the Governors and Corporation to hold the Convocation for all of the above Faculties in a large publio hall, and to condense the whole into one afternoon.

The Windsor Hall having been selected for the purpose, it was arranged that the Convocation should assemble in the ante-rooms of the hall, and proceed thence to the platform or dais extemporized for the occasion. Seats were reserved for the graduating classes and students in the immediate front of the dais, a portion of the hall in rear of these was set apart for guests having tickets, and the remainder was left open to the public.

Some difficulties necessarily occurred in marshaling the procession, owing to the new circumstances, and the arrangement in the hall were, to some extent, interfered with by the unexpected fact that this large room, capable of accommodating 1,500 persons, was actually crowded with about 2,000 , many of whom arrived more than half an hour before the proceedings began.

The procession of Convocation wan formed punctually at half-pust two, mal as it entered the hall the University Musical Asmociation, under the guidance of Mr. Bohrer, sang with excellent offect the "Soldeera' Choruf," from Faust, while the audience rose as Hin Fixcellency the Governor-General, nccompanied by the Chancollor, passed up the aisle which had been kept open for this purpose.

His Excellency, as Visitor, occupied the chair of State, having on his right the Chrancellor, and on his loft the Principal, the members of Convocation and distinguished guests occupying the space at either side. Among those present on the dnis were :-

Mr. J. H. R. Molson, Sir Juseph Hickson; Mossrs. John Molson, W. C. McDouald, Hugh McLemman, George Haguo, E. B. Greenshields, and S. FinleyGovernors; Prof. Alex. Johnson (Vice-Principal), Dr. Robert Craik, Dr. H. A. Howe, Rev. Dr. Cornish, Mr. J. R. Dougnll, Rev. Prof. Murray, Prof. B. J. Marrington, Rov. E i. Rexford, Rev. Dr. Ienderson, Prof. J. S. Archibald, Q.C., Dr. George Ross, Mr. John S. Hall, Q.C., M.P.P., Dr. F. W. Kelley, Rev. Dr. Barbour, Prof. N. W.'Trenholme, Q.C., Rev. James Barclay, Ir. T. A. Rodger, Mr. J. H. Burland, and Dr. D. Mc-Eachran-Fellows; Dr. D. C. McCallum, nod Mr. Justice Wurtele-Professors eneriti ; Chiof-Justice Johnson, Mr. Justice Davidson, Mr. Justice Cross, Mr. Justice Loranger, Mr. Justice Tasehereau, Mr. Justice Jette, Mr. Justice Tait, His Lordship the Bishop of Algoma, Rev. Principal Adams (Lennoxvillo), Rev. J. A. Newnham, Prof. Darey, Prof. Penhallow, Dr. Wm. Gardner, Prof. C. E. Moyse, Prof. C. H. McLeod, Dr. L. H. Davidson, Dr. Jas. Stewart, Dr. George Wilkine, Prof. Chandler, Prof. T. Wesley Mills, Dr. J. C. Cameron, Rev. Prof. Coussirat, Dr. A. J. Eaton, Mr. Arch. McGoun, Mr. Paul T. Lafleur, Dr. W. G. Johnston, Miss Helen S. Gairdner, M. Ami (Ottawa), Dr. Trenholme, Mr. J. W. Brakenridge, Mr. C. J. Fleet, Mr. W. J. White,

פrof. M. Hutchinaon, Q.C., Rev. Canon Ellegood, Rev. Dr. Shaw, Sir Jamem Grant, Mr. H. Abbott, Q.C., Mr. Jamen Ferrier, Mr. J. Nainmith, Mr. N. I'. Riello, Mr. R. S. Weir, Mr. W. MoLon Walbank, Mr. E. H. Hamilton, Mr. George Lilwards, Mr. M. Hersey, and a number of graduater, including several lady graduatea.

The Graduates' Socioty of the Ottawn Valley was represented by Sir James A. Grant, M.D., K.C.B., l'resident ; Mr. J. H. Burland, B.A.Sc., Mr. H. M. Ami, M. A., Dr. R. Bell, and Mr. G. F. Caldera, B. A.

It had been hoped that Sir J. A. Macdonald would have been one of the guests. This proved impossible, but Lady Macdonald was present, nad was sented with the ladies of aeveral of the Governors and leading officers of the University in the reserved soats.

The meeting wan opened with prayor by Rev. I'rof. Clark Murray.
'I'he Chancollor, sir Donald A. Smith, in his opening address, referred to the prenence of Lord Stanley, the Representative of the Queen, the worthy descendant of an illustrious house that had done great and good service to the Empire, the Governor-Genoral of this great Dominion, which is destined to become greater and groater every year. Sir John Macdonald was, unfortunatoly, unable to be present, but he was glad to see that Lady Maedonald had honored them with her presence. It was the aim and desire of everyone connected with McGill that it should hold a still higher position among the schools of learning, not only on this Continent but in Europe. They were proud of the position which it already holds. Starting from a very small beginning, it had, in the last five years, advanced by leaps and bounds. He referred to the numerous generous gifts that had been made to the University. To Mr. Wm. Molson they were indebted for the Convocation Hall, which, in those days, was sufficient for their necessities, but was far too small, to-day, for their wants. He most cordially welcomed His Excellency, and esteemed it a great honor to have him among them.

FACULTY OF l.AW.
Prof. 'Trenholme, Q.C., L.L.D., was then called on, me Dena of the Faculty of Law, to introduce the baninow of that Fnculty. Ho congratulated them on the premonce of the dintinguished nobleman who in the Governor-General of the country and the Reprementative of Her Majenty. Reforring to the magnificent donations that had been made to othor Fincultien, he tonched upon the disadvantages under which the Faculty of Law labored. The laws in thin Province differed from those of the reat of the Dominion, no that for pupiln they were limited to the P'rovince of Quebec. Even here, the people were of different races and langungea, and they constituted only the minority. 'Thus the supply of students was so small that the fees wore not sufficient to support the Faculty, and it wan a question whether they would have to give up Jurisprudence or support the Faculty of Law. It was in this crisis that a merchant friend showed his appreciation of law by coming forward with a priacely donation. Ho wan proud to see a praction people liko ours determined to maintain law schools. Among the law schooln of other universities he did not see a single ondowment which equalled that which Mr. MeDonalil had given to us. Addreasing the students, he said :-Let thom be true to themsolves, and they would be true in the best sense to their Alma Mater. He closed by urging them to be honest ard upright citizens as well as diligont and studious professional men. He then rend the list of those who had attnined the B.C.L. degreo, which was as follows:-

Warren A. Kneeland, Montreal ; George P. England, Dunham, Quebec ; Denire H. Girouard, Montreal ; Thos. J. Vipond, Montreal ; Alfred E. Harvey, Stanstead; H. R. Pelletier, Marieville, Que.; John D. L. Ambrose, Montreal.

The list of medals, prizes, and honours hnving also been read, the successful candidates were called up, and received their distinctions from the Visitor and the Chancellor.

The graduating clase was called up to the front of the platform and the deolaration administered, when the degree wan conferred in the unual manner by Priucipal Sir William Dawaon.

Mr. A. E. Harvey, B.C.L., then read the Valedictory.

## FACULTY OF APPLIED SCIENCE.

The Principal then expressed hin regret that an accident, fortunately not of a merious naturo, provented the Deau of the Faculty of Applied Science from boing present, and from announcing the great benefactions made to that Faculty, but a printed atatement of these had beon diatributed in the hall, and Dr. Harrington would nunounce the resulte of the ex. mminations.

Dr. Harrington ahortly referred to the bequeat of the late Mr. 'Thomas Workman of $\$ 120,000$ to found a department of mechanioal engineoring and to provide the necessary workshopa, and the stimulus given by this announcement influencing many of our citizens, who are directly or indirectly connected with the industrial arts and trades, still further to aid in extending the work of the faculty, the result boing numerous subscriptions, atnounting approximately to upwards of $\$ 25,000$. He next referred in fitting terms to Mr. McDonald's atill larger gift to erect a technical building, containing thermodynamic, hydraulic and electrical laborntories, laboratories for testing the strength of materials, museum, library, lecture rooms and drawing rooms. Work on the buildings is to be proceeded with at onco, and it is expected that the workshops will be available for use
thing of the kind hitherto provided in thin Duminion. He then read extracta from the report of the bean of the Fisenlty, whind will be formed in the Appendix.

Hen next read the linta of Honoura and Prizes, amil called up the nucconaful competitorn.

The following were then pronented an having fulfilled all the conditionm required for the begree of Bachelor of Applied Sciences:-

In Civit. Bnainkrhing, ( Alluanced Cobrm ), - Firmeat Alhert Etome: llohert lliekerdike.

In Civil Enginfrihing, (Orilimary Course).-Frmeat Allimet Stone; Widilun dardine Bulman; Itohert IBokerdike: John Bilward Seliwitzer.
In Mrellanieal. Enginghilina, (Ordinary Courne), - Ilenry Martyn Rammay; Peroy INowe Middlaton; Thoman Henry Whaglama Milea Lawrence Williams.
In Minino Einhingrimen. - Williati Henry H. Walker: Ilugh Yelvertom Runnel.

Mr. Percy H. Eivana then read the valedictory on behalf of the Grimluater in Applied Science.
'the Masical Aasnuciation then ang the following veraes, composed liy a lady of the graduating clans:-

Our hearta are lluhtened and mado alnds Sucegnenter relanis surreme.
Instend of anxioun toubtr and fearn Whloh darkened Hope'a falr dream.
llut thia bright ulow of happinen: Muat wang anyladnenan will.
When Fate demande with etern deoree, That we munt lenve Medili.
'Tis true that we muat ienve her halia: Hut let us not forget,
Althourh we munt be parted now. We are her students yot.
And in ourlife-lons ooflege enurne, Wo'll ntrive with arlour atill,
To follow all that wo have learned As atudents of Moolill.

## FACUL'TY OF ARTS.

Dr. Johnson, Dean of the Faculty of Arta, before announcing the results in that Fuculty, addressed the Convocation as follows:- This Convocaton marks an epoch in the history of this faculty as well as of two other faculties in the university, and in view of the really extraordinay increase of our financial resources, it is desirable to say something about
ita condition and progrenn. You will remember that the Fuculty of Arta in the faculty which maken an edueational inatitution a univeraity. Without it there would be merely profossional wohooln in Thoology, Law, Medicine, Applied Soience, and Comparative Medicine. It in the borly, of which the others are then limion ; it in the heart which nends, or ought to mend, the life-blood circulating through the reat of the ayntem. When therefore, any faculty recoiven a great development, the importance of a proportional development of the Finculty of Arta in obvious. It in most gratifying, therefore, to find that thin ficulty will receive a remarkable addition along with the otherw, and that thus benidea a fine Phyaion building, two now chaira will this year have been entablinhod in it-and not ton soon. We are growing rapidly in the Faculty of Arta. Our present graduating clanm in tho largent we have sent forth. There are 39 from MeGiill college and 4 from Morrin college, making a total of 43. The number of undergraduates in the largent we have ever had, viz., about 180. I'wo years ago we had only 132. We are growing by leapa and bounds as the Chancellor han said. The total number of our students is about $300-298 \mathrm{in}$, I think, the exaet num-her,-but as we have more from other faculties attonding our lectures we may reckon 360 as taking studies in Arts. As a cousequence our rooms are inconveniently crowded-in fact, we suffer the penaltios of rapid growth and fool what are called "growing pains." Our rooms are too small for our students, our library too small for our books, and our Convocation Hall too small for our frionds, but above and beyoud all (for there statements refer merely to buildings, and brains are more important than buildings, our profersors, even with the addition of the new chairs, are too few for the number of subjects and number of classes to be taught. In another way this convocation marks an opoch. For the first time we can say at this annual meoting that this Univeraity, in
common with other univeraition, onjoy tho mame privilegen, with refurence to the value of its degreen in Arta, in thin our uwn province which wo have long anjoyenl in other provincen and other countriom. It hat coast no little offort to obtain thome privilugen, and It in very much to the regrotted that thone offorta nhould have cauned an attempt to create ill-feeling among un who live in the province of Quebece. There wa no good remon for much attempt and no jualification. If an oxploring ship, in the oanne of nelence is by the lawa of war among civilized nationa froe from molenta. tion by an unemy's cruinern, how much more should univernition, whowe duty it ba to pronerve, to tranmait. and if ponsitho, to lincruase knowledgo, two froo from unarowomable animonition. That this in the general nentiment of our French-Canadian fellow-countrymon id nhown liy the voten in Parliament. It in a mont gratifying and oncouraging faot that what in called tho B. A. Bill wim pianoed by a majority who voted with. out diatinction of raco, religion of langunge. Wo owe them our thanka, not only for tho justice they have done uae (it in not oasy alway to do justice) but also for thoir courage in acting upon their knowlodige ..nd convictions. All honour to them.

Dr. Johnaon called up tho wimore of medals, honours and prizes, to receive their distinctions from the handa of the Visitor and Chancellor.

He then read the names of those who had passod for the degree of B. A., tho honour candidates being prosented firat, and aftorward the ordimary in order of standing. I'hoir names aro:-

H. Inez R. Botterell, Willinin F. Colelough, C'arrie M. Derick, Dasiel J. Fraser, IRobert MoDongall, Albert (i. Nicholla, Anilrew A. Mobertwon, Menry M. Tory, Bilward C. Trenholme, Annie Williama, Mande Ablott, Peurs Davilmon, Elizabeth Binmore, Alexander Tolmie, George H. Matthewmon, Hugh C. Sutherland, James T. Daley, John Alexander Cameron, Freierick M. Fry, Jeanie 'I'. Botterell, Alexander R. Hall, Silas W. Mack, H. McL. Kinghorn, Wm. Thomas D. Moss, Alex. Hunter, Isaac J. Swanson, Alezander W. Wialsh, Donald Mc-

Vicar, Peter L. Kichardaon, Wlllian I. Reid, John Parker, Alexaniler M. MoGregor, Mirn MoFarlane, Wm. E. Paton, Calvin Wright Finch, Mary Henderscin, Joweph J. IRoss, Sura B. Scott, Charles E. Brodle, Hugh Craig, Charlee DelBrinay and Duncan Andernon. The last four numed were from Morrin college and were presented by the Rev. Juntiss Barclay, M. A., on behalf of that college.

The degree was then conferred on the candidates in the usual mann or.

The ladies were received with much choering, esjecially those who had distinguished themsolves as medallists. Lord Stanley gallantly set the example of rising as each lady presented horself, and the homage of all that was great and learnod in connection with old McGill to a number of simpie though clever young women, was one of the itheresting as it was one of the touching features of convocation.
The Chancellor then callod upon Mr. D. J. Frazer, B. A., who read the valedictory on behalf of the graduating class of men, and on Miss Abbott, B.A., to read that for the class of women.

Rev. Dr. Cornish then addressed the graduates in all the Faculties as follows :-

## Lady and Gentlemen Graduates:-

The proceedings of this day mark the termination of your College course.

You meet, with us for the last time, in the capacity of students, and the University has now conferrod upon you those academic distinctions and honours, for the attainment of which you have been for some years earnestly striving.

In accordance with our custom, it devolves upon me, on behalf of the three Faculties here represented, to offer you our hearty congratulations, and to address a few parting words to you ere we send you forth into the active duties and difficulties of life.

The fact that you have devoted some of the best years of your life to the pursuits and studies of the College, shows that you set a high value upun the training which thereby may be secured.

There may be aome who think that the student, in thus giving up a portion of his young manhood for the acquisition of a liberal education, makes a ascrifice that does not find an adequate compensation in the reault gained.

But no man who forms a proper eatimate of the value of a liberal education, in the true sense of the term-that is to say, of the power wherewith it arms a man for future usefulnese and success, and of the benefits which may be made to result therefrom to the whole community-can come to such a conclusion. As a rule, he who acts as you have done, and works as you have worked, makes a wise investment of his time and labour for future power and profit. The error of those who think otherwise lies in yiolding to the tendency, too common in this age, of estimating the value of a thing by the amount of hard cash it will fetch in the market. But it is only those things that are "to perish in the using" that can be so estimated; those matters and principles which find their place and scope in the intellectual and moral life of men; I mean the knowledge and mental habits which are implied in the training of the schools, can. not be weighed in such a balance, because they have an intrinsic value of their own far surpassing that of money, and because they open up to a man avenues of beneficence and of power, which the golden keys of mere wealth can never open to hin. The past and present history of the mother-country, and, indeed, of every land, wherein a liberal education is appreciated, testify to this. Think of the importance to a man of a correct estimate of his own powers and tastes in preparing him for his way in life. To how many is life a failure owing to the want of this correct appreciation of themselves, and how many social and professional anomalies are to be set down to the account of this self-ignorance?

Think, too, of the value of proper habits of work and correct methods of procedure to the man engaged
in the activities of life. The function of the University is not to teach everything that comes within the scope of human knowledge and observation, but rather by a wise selection of subjects, so to train the minds of its pupils that they may be enabled to investigate and acquire knowledge for themselves. And when you consider those walks of life upon which, as a rule, Univeraity men enter, you will perceive at once the great value there is in such training and culture. The Church, the Legislature, the Law, and the practice of Medicine demand, each and all, as the condition of honourable success in them, the highest culture, the most severe habits of thought, and the most correct methods of observation and induction.

But with all these advantages, a liberal education brings with it its peculiar responsibilities. The educated man owes duties to his fellows that devolve not upon the unlearned rustic. It should be the aim of such a man to do all he can to extend to all classes of the community the great benefits which spring from sound learning; and in young countries like ours this is particularly true. In the interests of loyalty, and of good government, and of the conservation of all that is good and strong in our national life, character, and institutions, it is expedient that every member of the community should be more and more intelligent and enlightened.

For with our principles of government, education and intelligence in the masses are essential to the existence of a rational loyalty to the powers that be, and of an unawerving fealty to law and order; without these, government, as wo understand it, becomes an impossibility ; and tre way is opon to anarchy or despotism, the legitimate offapring of national ignorance. Thus it is, that the School and the College, regarded in their proper light, constitute, with religion, the very foundation of all national greatness.

And whatever may have been the place of our birth, we are all here as the citizens of one common
country; a country of which none need be ashamed, but rather proud, when we contemplate its progress in the past, and its capacities for greatness in the future. You will contribute to that greatness by doing all you can to make your fellow-citizens more intelligent and better through the education you have yourselves received.

And now, Mr. Chancellor, I may be permitted to advert to two or three matters, which are of such importance as to deserve special notice. As regards ourselves, the dominant note of this day's proceedings may well be that of thankfulness and congratulation. During the past year, many good things have fallen to the T uiversity, especially in the way of benefactions, whereby it has been placed upon a broader and more asaured foundation for future usefulness and success than it ever enjoyed before. To one standing here, as I do, on the completion of 33 years of service, the present aspect, as well as prospect, wears a very different look from that which presented itself a generation ago ; and one is naturally tempted to indulge, as might indeed be done with profit, in a retrospective comparison, or contrast, if you will, of our present comparative strength and affluence with the weakness and poverty of those days. But whilst refraining from this, I must, however, say, that we to-day are reuping the harvest of the seed then sown by our honoured and indefatigable Principal and by the Board of Governors, who gave freely, in season and out of seascn, of their time and best thought and means to strengthen and build up this institution, and to awaken in the minds of their fellow-citizens a generous interest in its work and welfare. How well they succeeded, let the gifts of the many, beginning with the year 1856, and the princely :nunificence of the honoured dead, and of the living, in whose presence to-day we rejoice, bear testimony. And I am sure that I may, without presumption, as representing here the teaching staff of
the Univeraity, give expression to the grateful appreciation with which each and all of us regard the munificence of our benefnctors which has placed at our command appliances for doing our work, of which the need had long been felt. Without indulging in extravagant eulogy, one may justly any this, that men who give of their substance, as they have given, in order to extend the advantages of higher education, and to make them more accessible to any class of the community, win for themselves, on the Bead-roll of their country's benefactors, a place second to no other in honourable distinotion. They contribute to the true greatness of our common country more even than he who wins new territory by the sword, for they are laying the foundations of a power greater and more enduring in its results than that of the sword; I mean the power of knowledge and of intellectual culture. And it is to the lasting honour of this city that, in the comparatively short period covered by the history of this University, so many of its citizens should have given so freely of their time and thought and wealth to consolidate and extend the advantages of sound learning.

Before I close a note of ondness must be touched. Whilst we have been receiving our good things, os sister University, in whose commanding position of usefulness and success all lovers of learning rejoice, is mourning the loss, by fire, of her beautiful buildings, and still more precious library and apparatus. "A national calamity," was the exclamation of everyone, as the startling news was flashed across the land. As in other relationships the law holds "if one member suffers, all the members suffer with it ;" so in the commonwealth of learning the same holds good ;-the loss of one is the loss of all, and the joy of one is the joy of all. It is very gratifying to note the widespread sympathy that has been awakeued with those who have suffered this loss ; and not sympathy in words mere!y, but help of a material kind, which
will aid in some degree to repair the damage done, in so far as it can be repaired. Let us hope that this fiery trinl, through whish that honoured University has been called to pass, will prove a source of strength and a stimulus for higher things in the days to colle; and that this event, untoward as it may now appear, may serve to biad, in a closer union of sympathy and of labour, our institutions of learning throughout this Dominion. For whilst they may laudably cherish an honourable ambition to surpass one another in doing the beat work they can do, the aim and object of each and all alike should be to improve the condition of the community at large by the diffusion of sound learning throughout the land.

Mr. Naismith, B. A., was then called on to present the winners of the Wioksteod modals for physical culture - Messrs. Ross and Jaquays, and those of the prizes in the Donalda Department-Misses Williams and Smith.

The degree of M.A. was then conferred upon Mr. Wellington A. Cameron, B. A., and Mr. Arch. McGoun, B.A., B.C.L.

The Principal then announced that the Corporation bad granted to His Excellency the honorary degree of LL.D., in rocognition not meroly of his position as the representativa of Her Majesty, and of a family long distinguished for the pursuit and patronage of learning; but as himself $n$ friend and benefactor of Literature and Science, who had shown himself able and willing to assume that position which had been held by so many of his predecessors, as the leader in the advance of the higher elements of our civilization.

The degree was then conferred by the Principal, and was received with cheers by the students. "Three cheers for the Doctor," said one of the studenta, and the cheers were heartily given.

His Excelloncy then addressed the Convocation to the following effect :-

He regretted that the first aiddress he had to deliver to them might be termed a valedictory, but truated that the word was used in no prophetic sense. It was a standing ovidence of the liberality of such institutiona that they should admit within their fold one who had not had the advantage of an academic career. After his eloquent predecesmors, Lords Dufferin, Lome and Lansdowne, he found some difficulty in finding a subject on which to address them. He was in the unhappy position of being called upon to say " $n$ fow words on geueral subjects." A gentleman who had come to Ottawa to lecture on oratory had said that it was a long time before he could emerge from the list of "and others," as the newapapers summed up the unimportant speakers. He felt sure that after his address he would subside into the "and others." He had tried to think of somo new subjoct that had not been threshed out, and it had occurred to him that if he could formulate the difference between some humble animal, say an ascidian, and a graduate, he might hit upon an iden that would thrill the world. On second thoughts, however, it occurred to him that if he were brought face to face with the animal it would know as much about him as he would about it. Other thoughts in connection with modern ideas of developutent had occurred to him ; but he had concluded that nothing could be more fitting than to refer to the development of our country and its educational institutions. It took as long, ninety years ago, to go by river from Montreal to Cornwall as it does now to cross the Atlantic. Now there is a network of railways all over the country. Eleotrical science at the beginning of the century was scarcely known in more than theory, while now messages sent from the old world arrived here before the hour at which they were sent. Hospitals and the treatment of the sick were of the most modest and imporfect description, while now there were buildings thoroughly fitted up and everything possible done fer the allevia-
tion of sicknems. At that time there wis no telegraph, no gas and no anoesthetics. He did not know whether it was an improvement that medical science had invited ladies to take part in the work, but the queation had resolved itself from one of principle to one of expediency. The growth of this University was itself au index of our progress. He could congratulate it on the wide scope of its work, extending not only to a very comprehensive course in the Faculty of Arts, but to training in so many professions-Law, Medicine, Vetorinary Science, Eagineoring, Mining, Practical Chemistry and other applications of Science to the Arte. He felt especial interest in the Donalda special course for women established by Sir Donald Smith. He spoke of the growth of that department and the success of the students as evidenced at this meeting of Convocation. He remarked, too, that out of five medals three were taken by lady students. Referring to the endowments this University had received, he said the college was the creation of the citizens of Montreal. This was an interesting instance of the union of oducational and commercial interests. He referred to the permanence of educational endowments in England, through all political, social and dyuastic changes, as an evidence that in this country also they wotild constitute the surest guarantee of the permanence of the institutions supported by them. He spoke of the ende to which the endowments wers to be applied, and closed by urging the graduates to be devoted to their Alma Mater and determined to maintain her credit and reputation ; to be honourable and truthful men, true sons of great sires, and worthy citizens of this great Dominion of Canada.

The Principal, apologising for detaining the meeting to so late an hour, and thauking the friends of education for the manner in which they had responded to the invitation of the University on this occasion, said that he could limit his statement to a few important statiatics and announcements.

The past sesaion of this University has in many important respecta been one of unexampled growth and promperity. The total number of atudents in McCiil colloge alone has been above 700, beniden 38 in attil. inted collogen in Artn and 86 tencherw in training. We have alded a new and promperous faculty, that of Comparative Modicino and Veterinary Scionce, and have received the Staustead Werleyan Collego into afflintion with the University. The liberal benefnetion given to the University have already been referred to. In all, the John Frothingham Principal fund, the Thomas Workman endowinent for the department of mechanionl engineoring, and the grent gifta of Mr. W. C. MoDonnld to the Fncultios of Applied Science, of Law and of Arta, will reach the handsome sum of nbout half n million of dollars, applicable direcily to the maintenance and extension of the work of the University. It is true that these donations alfect principally two of our professional Faculties and the acientifio work of the Faculty of Arts. I do not regret this, for these Fnculties and departments are eminently in need of endowinents. The ondowment of our Faculty of Law I regard as one of the best guaranteen that the English population of this province will continue to enjoy a fair share of influence in the Judiciary, the Legielature and the Bar, and the endowment of our Faculty of Applied Science will raise it to a lovel with the beat Science schools abroad. While mome persons entertain the nbsurd idea that professional qualifications can be raised by erecting an arbitrary standard of examination, Mr. MoDonald's and Mr. Workman's endowments proceed on the sound principle that this can be done only by providing a thorough educational foundation. This great principle, the source of our great benefactions, has also been publicly acknowledged in the recognition of the dogree of B.A. by the Legislature. But it must not be forgotten that these great and liberal benefaction leave other parts of our work relatively behind. The
literary, philonophical and mathematical departmonts, both for men and women, and which are really fundamental in their importaneo, ahould now have their turn, and large additiona are desirable in mattern relatiug to the comfort and health of atudenta, auch na the gymmaium and dining-hall, rooms for nocieties and convocation room and enlarged library. The additional half million which we hope to receive from our friends in the present year, should be devoted to thene and kiadred purposes, and will place us in a position in which we ahall be ablo to any that we are as well and thoroughly equipped as any university requires to be in the present condition of this Dominion. The actual work of the University in the past session is bent to be measured by the graduaten it has seut out. In this and the previous meeting of Convocation we have conferred in all one hundred and sixty degreps in course. Of these, 56 are in Medicine, 40 in Veteriuary Scieuce, 43 in Arts, 14 in Applied Science, and 7 in Law. Deducting higher degrees and the degrees given to veterimary students of previous years under the new regulations, the number of new graduates to be credited to the past session reaches to 130 , a larger number than we have ever previously graduated, and we may safely hold, in connection with the growing facilities offered here for bigher education, be ter trained than any previous graduating olass. The sending forth into active life of so many bighly educated minds maysurely be held to be a great and honorable work, on which both we and the friends of education throughout the Dominion may congratulate ourselves and express our thankfulness to the Author of all good that we have been able to do so much, while hoping in the near future to achieve still greater results. These results I feel to be certain, because I have faith in education and in the constitution and methods of this University. I have ventured in previous meetings of Convocation to predict much that we see realized to-day, and I believe
that with God'a bleaning on honeat and enlightened offort, there are thone hero to day who will live to aee the nuccean of which we now hoant appear an amall and poor, as those early efforta of the Uuiversity to which ruference has already been made ; but we know that they will give ux credit for the laborm and atruggles of the present as we remember thonn of the paat.

The Convocation was then cloned by the Rev. Canon Ellogood pronouncing the benediction.

## THE CONVERSAZIONE.

In the evening about flve hundred guesta were invited by the Chancellor, Principal, and Fellown, iv: he Redpath Museum, where they were entertained by songs and music provided by the College Musical Association, under the direction of Professor Bohrer. His Excelloney the Governor-General, accompanied by the Hon. Edward Stanley, was received at the door of the Museum, and conducted to the centre of the hall, where the guests were presented to Hin Excellency, after which refreshments were served.

The guosts circulated through the museum, glancing at its treasures, and especial attention was given to the largo sculptured block of granite from lubastis, prosented by the committee of the Egypt Exploration Fund, through Mr. H. R. Ives, and which forms a conspicuous object in the lower hall of the museum.

## APPENDIX.

Report of the Deun of the Faculty of Applied Science on Endowments, Buildings and Subscriptions, in connection with that Faculty.
"From the foundation of this Fnoulty it has been felt that a training which did not include laboratory and workshop practice was necossarily incomplete, but for many years we have been obliged to be content with the practical work which the students were
able to do in the nummer montha, except in the chemieal department, which had been provided for by the fine lahoratory urected by Mewarm. Molson and MeDonald two yearn ago. Althongh the Unt. veraty may well be pleaned iwith the anccean already attained by ita gridnatem in Applied science, it is with no mmall gratification that it ean now look forward to the development rondered ponaille by recent aplendid benefactiona, which will enable the student of the future to enter upon him profempomal career with all the advantagea oflered by modern remearch and invention. We alall now be able to give those fiacilities which the atudent has hitherto hal to neek ulae. where, und he will at find at home an inatitution which, in each and all the departmenta of Civil Engineering, Mining Eingineering, Mechanical Engieoring, Electrical Engineering, und I'ractical Chemin. try, will rank in point of nize and equipment with the foremost of the kind in Surope or America.

In the nutumn of 1889 the public received the news of the late Mr. Workman's hequest of $\$ 120,000$, to found a depmrtment of mechanical engineering and to provide the necessary workshops. The stimulus given by this announcement influenced many of our citizens, who are directly or indirectly connected with the industrial arts and trades, still further to aid in extending the work of the Finculty. Numerous subscriptions, an interim list of which is appended, have been received, amounting approximately to upwards of $\$ 25,000$.

Within the last month another benefactor has come forward, and, in addition to other noble gifts, Mr. McDonald has signified his wish to erect a technical building, containing thermodynamic, hydraulic and electrical laboratories, laboratories for testing the strength of materials, museum, library, lecture rooms and drawing rooms.

Work on the buildings is to be proceeded with at once, and it is expected that the workshops will be
availahbe during the coming winter. Tho atudenta will then have the opportunity of manating the in inatallation of the machinery and the adjuatmont of the mha 'ling.

The worknhopa are to be a threontory buidding, covering an area of alout 0,000 aquare feet.

On the ground floor is to be the machine shop, contalaing lathea, drilla, plater, milling machinery, otc., a apecial room being est apart for emery grinding. The firat and necond floora are to be devoted to wood-working, turning and pattorn-making, and are to be furniaked with apeeddathen, band and circular maws, etc., etc. At one end of the machine shop are tho foundry and amithy, with cupona, furnacen, forgen, otc. It in hoped alno to add n laboratory equipped with atampa and other appliances for the oruahing, dressing and nmalgmation of orea, botter provision for the ansaying of which will probably soon be provided in connection with the chemical laboratory.

The whole of the machinery in the workahopa will bo driven by $n$ compound engino, presented by Measra. J. Laurio \& Bro.

The time spent in the workahops will be from 400 to 600 hours, and the student will pass regularly from bench-work to turning, pattorn-makilg, forging, foundry-work, and will finally enter the machine shop. The objects of this course are to familiarizo a student with the tools used in wood nnd metal working, to give him a practical knowledge of the nature of the materials with which he bas to deal, and to tench him the most approved mehods of constructing machinery.

The technienl building is a structure of five storios, covering an aren of about 9,600 square feet. Upon the ground-floor are to be the following laboratorios: (a) A steam laboratory $60 \times 32$ foet, contnining a triple compound experimental ongine with dynamometors, calorimeters, injectors, graduated tanks,
and all appliances necemary for the thorough inventigation of the propertien of atean: (b) a inhoratory for teating the atrength of materiala, $\mathbf{t} 0 \times 32$ fent, containing a 75 ton Fimary teating machine, prenented by Mr. J. H. Burland, B.A.Se, a graduate of the Faculty; aloo machinea for teating the effeet toraion, repeaterl hending, oto.; (c) an hydraulic laboratory, In which experimente will be made on tho flow of water through pipee and month-piecea of variona forma and nizen, almo upon pipe friction, etc.; (d) a - Iaboratory for tenth upon comenta; (o) an olectrical Iaboratory in which will be inatalled the dymamon. Here experimenta will be conducted on dymamic electricity, and will form a apecial feature of the conrme in olectrical ongineering. Ample room will aloo be provided for atorage batterien; ( $/$ ) a laboratory of uniform temperatute containing a comparator, dividing engine and atandard ganger.

Additional labora:oriea of mimilar character are almo provided on the firat floor.

The second floor is to be occupied by lecture rooms, library, students' rrom, offices, etc.

The third floor forms the meseum, in which will be placed valuable collections illustrating meehanical principles. Through the further munificence of Mr. McDonald we already know that this musenm will contain the most complete and valuable collection of modela of mechanical movementa on this continent. These are world-famed as the Reuleanx Kinematio collection, and their value to tho atudent and also to the engineer can hardly be overestimated. In time we may hope to possess, through the kindness of other benefactors, models illustrating engineering structures, and also nectional models showing the construction of machinery.

The whole of the fourth floor is to be devoted to drawing.

All the onginecring students, civil, mining, mechanical and electrical, will be required to do work
in the laboratories in cortain departmente under the supervision of the professors. The object is to enable the students to study, experimentally, the sources of onergy, prime movers, and the strength of materials, and to carry on with intelligence original investigations.

In connoction with the department of mathematics and mechanics, there is to be a lahoratory of mechanics, in which the student, it the early part of his course, will make various kimls of experiments, e.g., will measure small intervals of time, and determine the values of certain important lynamical constants. The semenco of exact measurement will afterwards be still more thoroughly investigated by the aid ot micrometers, comparators and standard gauges.

A portion of the course in the department of experimental physics will bo attended by all students. Special work, chietty in the lahoratories, will be done by such of the stulents ins may desire to become elec. trical enginoers. Foa this purpose, in addition to the laboratories in the physical i,uilding, electrical research laboratories, and laboratories for testing dynamos, motors, accumalators, etc., are also to be provided in the tochnical building.

The course in surveying is primarily designed to qualify the student for admission to the practice of Provincial and Dominion Land Surveying, and to afford a thoroughly practical as well as theoretical training in field engineering. The work embraces chain surveying, angular surveying, the use and adjustment of the engineer's transit and theodolite, levels, plane-table, and other field instruments, the methods of contour surveying and underground surveying, railway curves and setting out work, hydrographic surveying, the methods and instruments employed in geodetic surveys, and practical astronomy. The large drawing rooms are to be fitted with suitable mountings for the various surveying instruments for the prosecution of triangulation and other instru-
mental work. The construction and adjustment of each instrument is made a special study. Provision is made for a course of instruction in transit observations for time, in the astronomical observatory, and also for advanced courses in geodesy and practical astronomy, and for practice in the use of magnetic field instrumonts, in accordance with the course laid down for the exmmination for Dominion Land Surveyors. Investigation of the errors of graduated circles and absolute standards of length will be made in comnection with the advanced work in geodesy.

It is not easy to put into words the gratitude which must be felt towards those who have mado such enlargoment possible, by all who have the interest of the University at heart. We can ouly hope to show it by the eudeavor to put such noble gifts to the bighest use. I may, perhaps, be pardoned for here expressing my great personal gratification that the development of the Facuity, which I so earnestly desired and advocated at the Convocation last year, has met with so complete a realization."

## interim list of subscribers to equipment.

Abbott, W.; Birks, Henry; Backwell, Kenucth; Bremner, A.; Brown, F. F.; Brush, George ; Burland, Geo. B.; Burland, Jeffrey H.; Campbell, Kenneth; Campbell Tile Co., England, per Jordan and Locker; Chanteloup, E. (late); Chadwick, F.; Clendinneng, Wm.; Crosby Steam Valve Co., Boston; Date, John ; Drysdale, D.; Drysdale, Wm.; Ewan, A.; Fairman, F.; Forsyth, R.; Frothingham and Workman; Garth and Co.; Gower, W. E.; Graham, Hugh ; Grier, G. A.; Gurney, E. and C., and Co., per F. Massey, Esq.; Hearn and Harrison, par L. Harrison, Esq.; Hersey, R.; Hodgson, Jonathan ; Holdon, A.; Hughes and Stephenson; Hutton, W. H.; Ives, H. R.; Jordan and Locker; Kennedy, John; Kennedy, Wm., Owen Sound; Kerr, R. and W.; King, Warden ; Knight (The) Hydraulic Co., California; Laurie, J., and Bro.;

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[^0]:    * The Valedictories have been printed in extenso in The University Gazette.

[^1]:    - Cannot rective the degree until he is of age.

