## IMAGE EVALUATION

 TEST TARGET (MT-3)



Photographic Sciences Corporation


# CIHM/ICMH Microfiche Series. 

## CIHM/ICMH Collection de microfiches.

Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques


The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique. which may alter any of the images in the reproduction, or which may significantly cnange the usual method of filming, are checkej below.Coloured covers/
Couverture de couleurCovers damaged/
Couverture endommagéeCovers restored and/or laminated/
Couverture restaurée et/ou pelliculéeCover title missing/
Le titre de souverture manque

Coloured maps/
Cartes géographiques en couleurColoured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
Coloured plates :rid/or illustrations/
Planches et/ou illustrations en couleur
Bound with other material/
Relié avec d'autres documents
Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la tistortion le long de la marge intérieureBlank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/ II se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

Additional comments:/
Commentaires supplémentaires:

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.Coloured pages/
Pages de couleur
Pages damaged/
Pages endommagées
Pages restored and/or laminated/
Pages restaurées et/ou pelliculées
Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées
Pages detached/
Pages détachées
Showthrough/
Transparence


Quality of print varies/
Qualité inégale de l'impression
Includes supplementary material/
Comprend du matériel supplémentaireOnly edition available/
Seule édition disponiblePages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image/ Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure. etc., ont été filmées à nouveau de fac̣on à obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


The copy filmed here has been reproduced thanks to the generosity of:

University of Toronto Library

## ARCHIVES

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmad beginning with the front cover and ending on the last page with a printed or illustrated impres. sion, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol $\rightarrow$ (meaning "CONTINUED"), or the symbol $\nabla$ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:

L'exemplaire filmd fut reproduit grâce à la générositó de:

University of Toronto Library
ARCHIVES
Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et on conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la derniere page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la derniàre page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole $\rightarrow$ signifie "A SUIVRE", le symbole $\boldsymbol{\nabla}$ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.



## UNIVERSITY COLLEGE.

## REVENUES <br> AND REQUIREMENTS.

## REPORT OF A COMMITTEE

APPOINTED BY THE SENATE OF THE UNIVERSITY OF TORONTO, AND ALSO BY THE BOARD OF TRUSTEES,

APRIL 13th, 1891.


## UNIVERSITY OF TORONTO.

## REPORT OF THE COMMITTEE APPOLNTED EY THE SENATE AND ALSO BY THE BOARD OF TRUSTEES.

The Committee appointed under the following resolutions of the Senate and the Board of Trustees :

Senate resolutions, Saturday, Jamary 10th, 1891:
" (1) Resolved, that the president, the vice-chancellor and the mover (Hon. Mr. Blake) " be appointed a committee to in fuire into and report upon the present and prospective "revenues and the most urgent pecuniary requirensnts of the University and of "University Oollege, and as to the time, modn and order in which thase requirements "should be dealt with.
"(2) Resolved, that the memorialx from the lecturers in Gurman, French and Latin, "and from the lecturers in English atul Greek, and all tormer memorials and reports of "committees relative to the subject be referred to the above committee."

Board of Trustees resolution, Thursday, January 15th, 1891 :
"The Board of Trustees, learning that the Goverument desires a full report as to "the presentand prospective finamial condition of tho University and its urgent pecuniary "requirements, and the time, wode and order in which they should be dealt with, and "that the Senate has appointed th", chancellor, vico-chnmedior and president a com"mittee to inquire into and report therson, appoints the same parsons on its part a "committee to inquire into and report thereon in so far as this Board is concerned in such "inquiry."

## beg to report as follows :

They have conferred with the members of the Faculty ; ob jained and coilected their written statements; received various porsons and depatations; examined into namerous matters involved in the reference; and deliberated ireatutly as to the course to be recommended.

They have thought it not irrelevant, but on the contrary important, to endeavour to set out some principles and theories on which, as they conceive, aution should be based.

In view of the scope of the reference and of the condition of the finauces, they have not attempted to frame an ideal organization, or oven to dispose of all the claims furcibly presented. It seemed sufficient to deal with the more urgent clains, to an amount which there is some hope of overtaking in the course of the aexi two financial years, and to defer the residue till the conditions of the revenue offer some prospact of further relief.

In dealing with so great a variety of delicate and disputable points, and such a complication and competition of clanns and interests, they are not so presumptuous as to affirm that they have avoided all errors of judginent; still less can they bope that they have met everybody's wishes.

But they have taken care to emboly in their report the statements laid before them, and thus to give the materials for corrocting any mistakes into which they may have fallen.

The report is divided into the following parts:

## PART 1.

Regources.-Plan por Realization of Proplaty.-Income.-Expectations.-Detallei Compalative Tables fon Ten Years.

PART 11.
E.cpenditure.

Detaled Compabative Tables for Ten Years.-Expectations.-Remarks on Tables of Income and Expenditube, incleding the Subject of Scholabsihts.

PART IH.
Buildinizs.
Main Building Reconstrection.- Proposed Lhbrary hemiding and Boorg.-Museux Specimens, etc.-General Financial Results.-Dhulugical Laboratory : Evidence and Recommenditions.-Bhological Museum Adition: Levidence and Recommendations.-Cifmistify: Evidence and Recumendations.-Mineralogy and Geology: Evidence and Recommendations.-Gymaslum and Students' Union: Recommendation-Reshence: Evidence and Recommendation.-Convocation Mall: Recomiendation.-Genebal Financial Results.-Financial Scheme.

PART IV.

## Theoretical Arrangement of Offices.

Associate Professors.-Representationon Counclls.-Appontments anil Promo-tions.--Salames.-Application to Eisisting Stafe-Rethement Fund.-Application of Regulations therefor.-Proposals for mamedite Action thereon.Financial Resllis and Cash Outlay.

PAR'T V.
Increase and Organization of the Teaching Staff.
General Remaris and Recombendations.-Policy as to Increase of Yearly Charge.-Remarks as to Past Increases.-Detalled Comparative Tables for Ten Years.-Modern Languages (Frencif, German, Italinn and Spanisi), Latin, Greek, Enolish, Pifysics, Matiematics, Phlosophy, Chemistry, Mineralogy and Geology, Biologr, Political Science, Oriental Languages: Evidence and Recommendations.-Librarian : Evidence and Recommendation.-General Result of Recommendations in this Part.-Clerks, Assistants and Servants.

## Unanimous Adoption of Report.

before them, ey may have

ATIONS.—DE-
ms on Tables sillis.

## Resounces.

The matrial resourer; of the University of Toronto and University College are compose/ of:
(1) Lands and buildings, and lond claims.
(2) shatgages mud purchase moneys.
(3) WMantures.
(t) City payment.
(5) Fees.
(l) Landa and buildings:
(a) Thone mind and reserved for the work of the institutions, being the block of land somb of $16, k_{1}$, awnue and west of the Western Park Drive on which are situate the University huidings.
(b) The lands romignous to the Queen's Park and College street, comprising lands rented on renewable leasers; and hands open for sale or lease.
(c) The lands cailen: tho, Hpper Canada College bloek, hounded by King street, Adelnide stret, Frimeo saredt and dom street ; open tor sale or lease.
(d) Detachel propertifs on York street, Queen street and Front street under lease ; and some small outlying properties of trilling value.
(e) Land claims, including claim for allowance as ground rent for the site of the School of Practical Science ; and claim for allowancens gromed rent for the site of the Parliament Buildings.
(2) Mortgages as of 1 st July, 1890, $8562,101.54$.
(3) Debentures as of same date, $\$ 385,812.38$.
(4) City of Toronto, per, etual nomul payment towards Chairs, of $\$ 6,000$ a year, equal on a capitalization at 5 jer cent., to $\$ 120,000$.
(5) Fees; a varying amount, subject to large deductions for expenses of examinations. Gross estimate from $\$ 17,000$ to $\$ 20,000$ a year.

The present rentals of all the leased lands amount to $\$ 11,114$ per annum, subject to great improvement on distant renewals. Their value, if free from these lenses, would be very great ; but is, of course, reduced by the low rents at present in force.

The value of the unleased lands, open for sale or lease, is from one and a quarter to one and a half millions of dollars.

The claim for an allowance in the nature of ground rent for the site of the School of Practical Science is recognized, and is dealt with later in this report.

The claim for a like allowance for the site of the Parliament Buildings is disputed; and on this, reference is made to an article by Mr. T. Hodgins, Q.C., in The 'Varsity of 21st Jannary, 1888, and to Sir Daniel Wilson's Convocation address of 14th October, 1887.

It thus appears that the resources of the University, apart from the value of the lands and buildings reserved for the purposes of the institution, are so large as to put its future, under wise and prudent administration, beyond all doubt or question ; and to ensble it by the realization of its assets greatly to increase its efficiency.

## Plang for Reabizition

Part of the hock morth of Hoskin nemue has heon put into the maket ; wad'

 $\$ 90,000$ in price.

The property enst of the Western Iark Drive, near Vietoria University, is boing laid out, nad will be fut on the market slartly.

Offers have heen inviterd for purt of the Tpper Cumadn Oollege book, which is thought to be specially suitable for a large down-town hotel.

The leare of the soott street proprery expires in $1890^{\circ}$, when a large midition will be mule to the rent.

It is proposed to wive tomants of lare park lots, induling unocedped ground wailable for gool detached residences, the omportunity of builing thereon on woper combitions; add for this purpose to modity her buithig rostrictions, on condition that the University receives a share of the protit ly an inproved rent.

## Income.

The income of the University from all sources; ineluding gross fues caleulated at 819,000; without making any allowance for a contingent fund in comection with investments, and without reckoning on any increased receipts from land sates or rentals, is estimated at about 893,500 for the current yar.

The advance of capital in connection with the Biological building la tomporarily reduced the invested funds. Prulence repgives the retention of a yearly sum for the formation of' a contingent fund to meet possible losses on investments. Lo this parpose $\$ 20,000$ has already been appropriated in the course of former years; and si, 000 a year should if possible be appropriated for some years to cone: subject to increts as the mortgage investments increase, until a full guaranty fund is nccumalated.

The present available income may be estimated at about 893,500 ; or, making the suggested nppropriation for contingent fund, at 888,500 .

## Expectations.

It is confidently hoped that within a comparatively short time the yearly incomo. will be largely increased from the various indicated sources, and it maty be reason'tul, axpected that it will be improved before the end of the next financial year by about $2 \mathrm{l} 2,500$ or more, producing a total of $\$ 106,000$; and that this improvement will bo progressivo in future years till the increase reaches at leost 550,000 a year. But, of course, as the movement depends mainly on the seleability of Turonto lands, it is impossible to calculate ita rate of progress or its extent with exactness.

## Comparative Tables.

The following tables are appended :-
Statement of capital invested on mortgages and debentures as at 30 th June in each of the last ten years.

Amounts invested in each of the last ten years.
Average rate of interest actually got in.
Debentures maturing; with dates of maturity.
Revenue actually reccived yearly from rents for ten years.
Rentals and dates of expiry of ground leases.
Receipts on income account for the last ten years.
Amounts Invested Each Year-Unifersity.


## Univernity or Tohonto.

Debenturen Maturing 1891 to 1000.

| 1891. | -85,700 67 |
| :---: | :---: |
| 1892. | 20,646 56 |
| 1893 | 173,794 66 |
| 1894. | 2,134 36 |
| 1895. | 3,153 15 |
| 1816. | 10,132 48 |
| 1807. | 2,349 91 |
| 1898. | 12,411 42 |
| 1899. | 8,784 58 |
| 1900. | 33,207 80 |
| 1901. | 4,923 45 |
| 1902. | 4,125 88 |
| 1003. | 4,187 80 |
| 1904. | 1,253 12 |
| 1905. | 1,322 08 |
| 1909. | 9,800 00 |
|  | 8392,927 89 |
| 1910. | 2,433 33 |

$\$ 395,36122$
Revenoe Received Yearly from Rents.

| - | 1890. | 1889. | 1888. | 1887. | 1886. | 1885. | 1884. | 1883. | 188. | 1881. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rents. <br> Rents University Park |  | $\begin{gathered} 8 \quad c \\ 2,35693 \\ 8,37661 \end{gathered}$ | $\begin{array}{cc} \& & c \\ 1,615 & 33 \\ 9,057 & 00 \end{array}$ | $\begin{gathered} 8 \quad \text { c. } \\ 1,511 \\ 67 \\ 6,98200 \end{gathered}$ | $\begin{array}{r} 8 \quad c . \\ 940 \\ \hline 00 \\ 6,121 \end{array} 30$ | $\begin{array}{cc} \$ & c \\ 1,011 & 00 \\ 6,283 & 00 \end{array}$ |  | $\begin{array}{rrr}\$ 8 & \text { c. } \\ 973 & 71 \\ 5,755 & 00\end{array}$ | $\begin{array}{cc}\$ 8 & \text { c. } \\ 600 & 00 \\ 5,992 & 50\end{array}$ | $\begin{array}{r}\$ 8 \\ 913 \\ 9100 \\ 5,403 \\ \hline\end{array}$ |
|  | 10,462 12 | 11,733 54 | 10,672 33 | 8,493 67 | 7,070 30 | 7,324 00 | 6,246 75 | 6,728 71 | 6,592 50 | 6,316 17 |

## University Park Rents.

Statement shewing dates on which leases expire together with their annalal rentals.

| Year of expiration. | Rentals of leases then expiring. |
| :---: | :---: |
| 1802. | \$125 00 |
| 1904 | 7500 |
| 1905. | 10000 |
| 1906. | 11000 |
| 1908. | 20000 |
| 1911:. | 10000 |
| 1912 | 24000 |
| 1914. | 68000 |
| 1916. | 1,020 00 |
| 1917. | 1,015 00 |
| 1918. | .. 1,030 00 . |
| 1924. | 30000 |
| 1925 | 20000 |
| 1926 | 69000 |
| 1928. | 2,60400 |
|  | \$8,489 00 |
|  |  |

1st January, 1891.

|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| University Park (as above) $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ |  | Amount. | Expires in |

Receipts-Account Income, 10 Years.


## PART II.

Expenditure.
Oomparative Tables for ten years.-Expectations.-Remarks on Tables of Income and Expenditure including the Subject of Scholarships.

Tables.
Tables of expenditure follow, showing :-
(1) Summary of the expenditure under different heads for ten years past. Statements of the same grouped under the proper heads as follows:
(2) Expenses of management and investment.
(3) Salaries, etc.
(4) General expenses.
(5) Buildings and grounds: maintenance, furniture, repairs, etc.
(6) Laboratories and museums : alterations and repairs.
(7) Special expenses: University.
(8) Special expenses: University College.
(9) Contingent fund.
(10) Note A-Details of expenses re investments.
(11) Note B-Buildings: maintenance, furniture, repairs, etc.
(12) Note C-Chemical laboratory.
(13) Note D-Biological laboratory.
(14) Note E-Physical laboratory.
Expenditcre por Ten Yrars Ending 30th Jene, 1890.

|  |  |  <br>  <br>  | \|l |
| :---: | :---: | :---: | :---: |
|  | $\stackrel{\text { ®id }}{\underset{\sim}{\infty}}$ | نЮ <br>  <br>  |  |
|  | $\underset{\sim}{\mathbf{8}}$ |  |  |
|  | $\stackrel{\dot{\infty}}{\stackrel{\infty}{\infty}}$ |  |  |
|  | $\stackrel{\text { ®ig }}{\stackrel{\circ}{8}}$ | - F ๓ <br>  | 7 8 <br> 9 8 <br> 7 8 <br> के  |
|  | $\begin{aligned} & \dot{\infty} \\ & \underset{\sim}{\circ} \end{aligned}$ |  | $$ |
|  | $\begin{aligned} & \stackrel{8}{\infty} \\ & \underset{\sim}{0} \end{aligned}$ |  |  |
|  | $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \end{aligned}$ |  |  |
|  | $\underset{\sim}{\dot{\circ}}$ |  | $$ |
|  | థiઠ |  | $\begin{array}{ll} \infty & 8 \\ \stackrel{y y y}{c} & 8 \\ \text { in } & 0 \end{array}$ |
|  |  |  |  |

Expenseb of Management and Invesiment.

| Accoonr. | 1890. | 1889. | 1888. | 1887. | 1586. | 1885. | 1884. | 1883. | 1882. | 1881. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bursar'g office <br> Expenses re invearments, etc. (Sfe Note " $A$ ") | 8. e. <br> 4,066  <br> 80  <br> 986 70 | 8 c. <br> 3,488  <br> 1,096  <br> 1,  | $\begin{array}{cc}\text { S } & \text { c. } \\ 3,009 \\ 674 \\ 674 & 04\end{array}$ | $\begin{array}{cc}\text { \$ } & \text { c. } \\ 2,949 \\ \text { 564 } \\ \text { 53 }\end{array}$ | 8 <br> 8. <br> 2,889 <br> 1,585 <br> 18 | $*$ <br> 8.8 <br> 2,825 <br> 1,259 <br> 123 | 8 8, c. 2,518 429 429 |  | 8 0.1 <br> 2,65  <br> 75  <br> 748  <br> 16  |  |
| Bursar's Office- | 5,053 50 | 4,575 04 | 3,683 11 | 3,517 77 | 4,413 50 | 4,115 04 | 3,210 31 | 3,100 33 | 3,358 91 | 3,761 |
| Amonnt in account as above . .................. <br> Less returned by U.C. College after 30th June. | 4,066 80 | - |  |  |  |  |  |  |  |  |
|  | 1,016 70 |  |  |  |  |  |  |  |  |  |
|  | 3,050 10 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |



| Buildings, etc., (See Note " B") | $\begin{array}{r} \hline 2,41991 \\ 75995 \end{array}$ | $\begin{array}{r} 5,71024 \\ 77165 \end{array}$ | $\begin{array}{ll} 2,373 & 07 \\ 1,039 & 31 \end{array}$ | $\begin{array}{ll} 2,415 & 19 \\ 1,338 & 20 \end{array}$ | $\left.\begin{aligned} & 2,264 \\ & 1,230 \end{aligned} \right\rvert\,$ | $\begin{aligned} & 1,3 \mathrm{G} 1 \\ & 30 \\ & 1,133 \end{aligned}$ | $\begin{array}{ll} 1,837 & 09 \\ 1,281 & 42 \end{array}$ | $\begin{aligned} & 1,719 \\ & 1,588 \\ & 1,66 \end{aligned}$ | $1,41467$ | $\left.\begin{array}{ll} 3,617 & 45 \\ 1,821 & 22 \end{array} \right\rvert\,$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3,179 86 | 6,481 89 | 3,412 38 | 3,753 39 | 3,434 46 | 2,484 45 | 3,118 51 | 3,307 90 | 3,984 44 | 5,438 67 |


Sundries.

| Sundries. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Account. | 1890. | 1889. | 1888. | 1887. | 1886. | 1885. | 1884. | 1883. | 1882. | 1881. |
| Contingent fund ............... | $\begin{array}{cc} s, 000 & \mathbf{c} . \\ \hline 00 \end{array}$ | $\underset{2,500}{s} \underset{00}{s}$ | $\stackrel{3}{2,500} \mathbf{c}$ | \$ c. c. | $\stackrel{\$}{5,000} c \mid c$ | $\stackrel{s}{8,500} \mathbf{c}$ | $\stackrel{s}{8.500} 00$ | § c. | \& c. | \% c. |
| Expenses re Investments, Etc.Note "A." |  |  |  |  |  |  |  |  |  |  |
| General incidentals <br> Plans for Minister <br> Arbitration re Victoria College <br> Commission on loans <br> Law costs <br> Insurances remortgages | 30725 | 10198 | 195 84 | 8850 | 6 \%0 | 17250 | 444 | 8990 5090 | 20509 | 13214 |
|  |  | $80 \dddot{00}$ |  |  |  |  |  |  |  |  |
|  | 19100 <br> 488 <br> 15 | 46745 41503 | 43900 3920 | 199 <br> 88 <br> 85 <br> 75 | 1,20412 11839 | 995 91 917 | $\begin{array}{r}201 \\ 71 \\ 7189 \\ \hline 189\end{array}$ | 11821 | 318 $2 \times 4$ | 1930820 |
|  | Cr. 10838 | 41503 3165 | Cr. $\begin{array}{r}39 \\ 72 \\ \hline 20\end{array}$ | 19481 | 19481 | 30 | 1116 |  |  | 700 |
|  | 98670 | 1,096 13 | 67404 | 56853 | 1,523 82 | 1,289 63 | 42913 | 44186 | 74816 | 1,322 86 |
| Buldings-Maintenande, Furniture, Repairs, Ftc. Note " ." |  |  |  |  |  |  |  |  |  |  |
| Buildings <br> (Oak flooring) <br> Covering steam pipes | 1,74391 $\cdots \ldots \ldots \ldots$ | 1,951 44 | 1,231 15 | 2,170 19 | 2,029 52 | 1,162 00 | 1,299 72 | 91840 | 1,57430 523 99 | 2,022 45 |
|  | 361000 |  |  |  |  |  |  |  |  |  |
| Lecture room alterations $\ldots \ldots .$. | 32500 |  |  |  |  |  |  |  |  |  |
|  | .. ..... | 3,369 71 |  |  |  | 14740 | 53737 |  |  |  |
| Drains, water-closets, etc ......... |  |  | 24550 |  |  | 1474 | 538 |  |  |  |
| Heating apparatus … ${ }_{\text {Convocation }}$ Hall windows |  |  | 2450 |  |  |  |  | 44400 |  |  |
| Observatory cottages Special repairs ....... |  |  |  |  |  |  |  | 7658 28028 |  |  |
|  |  | 38909 | 3860 | 24500 | 27493 | 5190 |  | 28028 | 4714 | 76214 |
| Lecture room........ | ......... |  |  |  |  |  |  |  |  | 20000 |
|  |  |  |  |  |  |  |  |  |  | 27999 26500 |
| Dean's residence . ${ }^{\text {Plans for President's house }}$ |  |  |  |  |  |  |  |  |  |  |
| Gas, Convocation Hall <br> Furniture for examinations ...... |  |  | 35460 |  |  |  |  |  |  |  |
|  | 2,419 91 | 5,710 24 | 2,373 07 | 2,415 19 | 2,204 45 | 1,361 30 | 1,837 69 | 1,715 24 | 2,569 77 | 2,617 45 |



| Ćhbyical Labobatort.Note " C." |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Accoust. | 1890. | 1889. | 1888. | 1887. | 1886. | 1885. | 1884. | 1883. | 1882. | 1881. |
| Chemical lecture materials Chemical laboratory apparatus. | $\begin{array}{cc} \text { \& c. } \\ 4125 \\ 79 & 03 \end{array}$ | $\begin{array}{r} \text { \& } \\ 9 . \\ 93 \\ 1,831 \\ \hline 65 \end{array}$ | 8 c. <br> 22 10 | \$ c. 19933 |  | \$ c. 10000 $\cdots \cdots$ | 8 c. 2194 $\cdots \cdots$. | 8 c. 100 00 | $\begin{array}{r}8 \mathrm{c} \\ 7606 \\ \hline 37658\end{array}$ | 8 c. <br> 63465 |
|  | 12028 | 1,925 24 | 2210 | 19933 | 3700 | 10000 | 2194 | 1300 | 45264 | 1,634 65 |
| Bhological Laboratory.Note " D." |  |  |  |  |  |  |  |  |  |  |
| Maintenance, museum, etc | 1,262 84 | 20429 | 3,833 17 | 1,248 98 | \%0964 | 58097 | 47759 | 29965 | 42046 | 59701 |
|  | 28570 |  |  |  |  |  |  |  |  |  |
| Lockers ....................... |  | ${ }_{4} 5083$ | ……....... | $\cdots$ | ……… | ........... | - | -.......... | . |  |
|  | 2,015 30 | 1,005 12 | 3,833 17 | 1,248 98 | 70964 | 58097 | 47709 | 29965 | 42046 | 59701 |
| Physical Laboratory.Note " E." |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Maintenance .................... | 24350 | 26072 829 22 | 22937 | 7800 | 52238 | 22194 | 29930 | 24736 | 63935 | 36171 |
|  |  |  |  |  | 3,500 0 | 2,000 00 | $\cdots 23145$ | ……...... |  | .......... |
| School of practical science.................. |  |  | $\cdots$ |  |  | 45400 | 54600 |  |  |  |
| Alterations...................... | -.... | ............. | ……...... | …........ | ......... | - | ........ | 2,034 13 | ........... | -....... |
|  | 24350 | 1,0s9 94 | 22937 | 7800 | 4,022 38 | 2,675 94 | 1,077 35 | 2,281 49 | 63935 | 36171 |

## Expectations.

It is pstimates that the expenditur3 for the current year will be about $\$ 92,000$, so closely uppronching the income us to render it impossible to apply to the contingent fund more than ahout $\$ 1,500$ out of the 85,000 appropminted to that object.
lor 1892 the expenditure on the present sonle will be increased ly the balance of the salary of the Professor of Ethics ( 82,000 ), and hy sums for the full year's salary of ofticers appointed during the current year; mul hy a large sum for insurance on the huilding, two-thirds of which, however, will properly be clurgeable to the succeeding two yars, mad hy somo items of mantemance.

It is conjectured that these increnses will hing the expenditure for the financial year 1892, on the present scale, up to about 895,000 , th nginst a conjectured income of S106,000, which would leave a surplus of $\$ 11,000$ without providing for an appropriation for tha contingent fund.

And it is with reference to this conjectare that the financial schemes for the immediate future should he hased. A few months will give some indieation as to its accuracy.

It will, however, be seen that if the University can, as it is hoped, make sales of its chnice property to the amount of $\$ 200,000$ a year for the next two or three years, or to the extent of (say) half a million of money, producing $\$ 25,010$ n yeur, its position will he one of comparative pase; and that a much smaller result would remove all financial ditliculty in the way of executing the proposals of this report. In this view account is not, as it otherwise onght to be, taken of the fact that two or three years hence the item of maintenance will be increased by the occupation of the projected buildings.

## Remabis on Tables of Income and Expendithe.

These tables show an increase amounting in ten years to about 00,000 in the charge for salaries; an increase rendered possible oaly by the following facts : $\qquad$

## Diminution of Cherye.

(1) The charge for pensions, which reached 85,260 in 1862 , has sunk for the time to a very low point ; making a temporary saving of uhout
(2) The charge for schol:rships, amounting in 1883 to 84,718 , has heen, sof fur as the University is concerned, abolished, the present item of 8790 representing the proceeds of private endowments; making a saving of (say)

Total dimimution of charge.

## Increase of Receipts.

(3) The fees have been doubled in amount and largely increased in volume, having risen from $\$ 6,578$ in 1832 to $\$ 17,515$ in 1890, which, however, included 8692 properly belonging to the previous yoar, thus reducing the true receipt to $\{1,842$, and show ing an increase in gross fees (which of course is not net protit) of over
$\$ 10,000$
(4) The settlement with the city provides a yearly sum of .......... 6,000

Incrense of receipta
Total diminution of charge and increase of gross receipts.
$\$ 24,500$
Therefore the enlarged expenditure for silaries has not been rendered possible by any considerable expansion in the revenue from endowment; and the forecasts of the report of 1882, elsewhere referred to, have been in this regard verified; the reduction in the current rate of interest having had its effect in this as in other like cases.

## Sumolabsitids.

As to tho expenditure for scholarships, while dontat has been thrown on the utility of such expenditures under cortain conditions, it is yet conceived that the establishment of modernto hursaries in connection with tho matrienlation examinations is plainly justitiable and expedient.

Nor must it be forgotton that competing universities provide such scholarships and also free tuitions to a very large extent.
lnstances arg reported in which good mon, desirous to join the l'rovincial University, lave been, since the withlrawal of our sehoharships, obliged to go elsewhery in pursuit of these nids, which are so important in the frepuent sases of stndents of nurrow means.

It is of the greatest importance that the l'ovincial University should retain in the ranks of its students the best and brightest minds of the Province, The influence of such men is felt in the clevation of the standard of stuly and of culture through the whole body; it reacts finvorably on the pass-men; it leavens the mass.

Again, the prestige and usefulness of the University is allected by the position taken in the world by the sons it sends out into the battle of life.

On all grounds, therefore, we must have regarl to the bearings of this question.
It is not propoed at this time to recommend an alteration in the law which prevents expenditures on scholarships.

But it is thought right to bring the subject prominently into view, and to suggest that it remain open for consideration in the future; that in the menatime the attention of the friends of the University be specially directed to this chmmel for their liberality ; and that every encouragement bo given, by the establishment of free tuitions in connection with scholarships, by further legislative ticilities, and otherwise, to the plans of those who may endow them.

## PAR' $1 I I$.

## Buildinys.

Man Building Reconstrucgion. - Proposely Library Bullding; and Boors.Musedm Specimens, et .- (ieneral Financlal Results.-- Biological Laboratolly: Evidence and Recommendaions- - Biological Museum Additica: Evidence and Recommendarions.- Chemisthy: Evidence and Recommendations.Gymnasium and Students' Unign: Recombendation.-Residence: Evidence and lecommendation.-Cunvocation Hall: Recommmendation.-General Financial Results.-Financial Scheme.

## Main Bulldings.

The resources available for the restoration and reconstruction of the main building in part destroyed by fire on February 15th, 1890, comprise :-

| Insurance | \$ 90,000 |
| :---: | :---: |
| Public grant | 160,000 |
| In all | \$250,000 |

In remodelling the interior, regard was had to the present and prospective needs of the institution; to the increased and increasing numbers of students, male and female; and to the enlarged curriculum.

The space available has been devoted to meet these needs, and will adequately supply them for a considerable period, in the departments served by this building.

It became necessary to use for examination rooms the spaces of the old Library and Museum, nad for lecture rooms and like purpeses the space of the old convocation hall.

Every effort has been mude to produce tho best results at the least cost, and it is hoped that the work may be finished for a sum slightly within the amount named, without, however, providing for the replacement of the library and convocation hall, to which, of course, uny surplus would be upplicable. The contracts provide for completion in October. It is thought that the work will be, to a large extent, then finished.

Tue Limbaik Bulding.

The liberality of friends of the University, including the sister Province of Quelsec, hats provided a builing fund of $\$ 62,000$, which it has been decided to devote to the erec. tion of a library building on the modern principles of a stack room and the seminary system.

The greatest pains have been taken to secure a satisfactor; design, and the working phans are now being prepared.

The approximate estimate of cost is $\$ 65,000$, so that this important building will be provide 1 almost free of cost to the University.

Libmamy Books.
It is very gratifying to report our condition and prospects as to books.
This loss it was which moved our friends at home and abroad more than any other incident in our misfortune.

Our insurance is $\$ 50,000$.
Subscriptions have been made to over $\$ 12,500$, of which over $\$ 16,000$ has been paid.

The balance is payable by instalments spread over several years, and though there will, of course, be some shrinkage, it is expected to produce a very large sum.

We have also received up to this date as presents 26,622 volumes of a very high average value.

It is expected that with these liberal aids the librery can, by means of the subscriptions, be put in a condition of great practical efficiency ; and it is proposed to convert the insurance money into a permanent library fund to be devoted exclusively to the increase of the books.

## Museum Specimens.

Archreological, Mineralogical, Biological.
Our insurance on these was $\$ 8,000$.
It is hoped that a public appeal, as soon as the new museum is opened, will produce a considerable number of specimens, to be supplemented by purchases out of the insurance money, which should be devoted to this object. Liberal promises hive been made and some valuable gifts have already reached us.

## Furniture,

Our insurance on this was $\$ 4,000$.

## tely supply

Cibrary and cation hall. st, and it is med, with 1, to which, npletion in

## of Quebec,

 to the erec. - seminary he working ing will be any other ,000 has pugh there very high - subscriponvert the e increaseGenfaral Remula.
The general result of the foregoing details is as follows :-
(1) After the lire our resources were-

Insurance on building . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . \& 90,000
Insurance on books. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 50,000
Insurance on various museum rpecimens. . . . . . . . . . . . . . . . . 8,000
Insurance on furniture .nd scientitic apparatus............ 4,034
We have received or been promised-
Legislative grant. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8180,000
Subseriptions to building (devoted to library building)..... 62,000
Subseriptions to library liooks. . . . . . . . . . . . . . . . . . . . . . . . . . 12,000 $42,000 \quad 264,000$

Grand total 8416,934
Besides presents of books, 26,622 volumes.
With these resources wo are onabled to restore the main building, improved so an to meot our altered needs; to replace the furnitare; to build a new library, with seminary rooms; to provide an eflicient library of books, and a permanent book fund; and to restore, to a large extent, the museum specimens.

All this will be accomplished practically without trenching on the University endowment.

## Bulldings for Depaltment of Bhology.

The funds for the laboratory building costing (with $\$ 466,76$ for outfit) $\$ 57,126.54$, have been provided as follows :-

Out of surplus income. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $824,96.577$
Advanced out of endowment. . . . . . . . . . . . . . . . . . . . . . . . . 32,166 77
857,126 54
The recommendation of the Board of trustees was that the $\$ 30,000$ allowed by the government to the University in respect of the old park buildings should be devoted to this object, which application would now leave to be provided for only $\$ 2,16677$, which was to be advanced out of capital and recouped out of surplus income.

The Order-in-Counc 1, however, stated, perhaps inadvertently, that the recommendation of the Board was that the balance required, over and above \$15,500 then available from surplus income, should be taken out of capital, and that the amount should be recouped. out of income, and it adopted this assumed recommendation.

The $\$ 30,000$ referred to has been put to the credit of the endowment fund.
In the present state of the income fund and of the demands thereon it becomes necessary to adjust this balance ; and an advantageous plan for doing so, and for settling the cost of the museum addition to this building, and of other needed buildings, forms part of this report.

The estimated cost of the muscu. addition is $\$ 05,000$, the payments thereon, amounting up to A pril 18 th to $\$ 54,329.28$, have been made out of the eapital of the endowment ; and it is profs co provide for the adjustment thereof, as well as for the erection of further necessary buildings.
A.s part of the museum building, and with a view to provide fully for the future expansion of the department, and to afford the amplest facilities for the study of all the subjects on the curriculum, lecture-rooms and accommodations have been provided suitable for the study of human anatomy and physiology.

The evidence on this subject is as follows:-
I. (Abstract of memorial by Dr. Macallum in the study of human anatomy.)

Cambridge (England) University. (Only examination papers accessible.)
In the natural science tripos the student is required to take human anatomy, hoth descriptive and practical, in his biological course. Every paper in this course contained from one to three stiff questions in human anatomy, 1887-9, and the student was compelled to show that he could dissect out any part of the body required in such a shape as to satisfy the examiners that he was a good dissector, In 1887-8 there were three questions on human anatcmy on every paper ( 6 in number) in Part I., and there was in aldition a paper on practical human anatomy. In Part II. from two to three questions (stiff ones) on human anatomy were on every paper in biology, with a paper on practical human anatomy. In 1888-9 the same is true of Part I. ; in Part II. there wero four examination papers on human anatoay alone in the biological course, with one paper on practical anatomy. The biological course in Oamlridge is not a steeper one than in the University, except in this respect. The human boly is the best subject on which the biological student can gain his accurate halits of disvection and his thorough grinding in vertebrate anatomy, which is necessary to a grond bioiogist, zoologist ard physiologist. In this respect the Cambridge University authorities are wise, and the result is that the Cambridge school of biologists is the most reliable in the world.

The dissecting room is on the University ground and within a stone's throw of the biological laboratory.

## Melbourne, Colony of Victoria (Australia).

The degrees of this institution are esteemed almost as highly as those of the Universities of London, Cambridge and Oxford. It is only recently that the governing body has filled the chairs in the science and medical facultica, and therefore a full curriculum in these departments has not been made ont. They have the buildings of the medical department, including the dissecting room, situated on the University grounds, within a stone's throw of the arts building.

This University is supported and endowed by the Government of the colony.
Edinburgh and Glasgow.
The dissecting rooms are in the wings of the main University buildings. In Edin burgh the dissecting room fronts one of the busiest streets.
I. versity College, London.

The dissecting, room is here also in the main building, adjacent to chemical and physiological laboratories. As this college is not empowered to grant degrees its course of stmly is adapted to the net ds of the student and the University examinations he proposes to take.

## Yale.

In the course on comparative anatomy a series of lectures on embryology is delivered with special reference to human morphology (human anatomy), and this is compulsory on. the students in biology. (Calendar, p. 130.)

> University of Pennselrania-School of Biology.

In this laboratory the student is required in the advanced course to undertake the minute dissection of mamal, which is generally represented by the cat. In the "Handbook of [nformation concerning the School of Biology" there is a sort of apology
for this choice. The directors (F 95) say: "It is not necess'ry to dwell on the importance to the general student of a knowledge of his own body, or on the value of such careful work upon one type to the student who intends to devote himself to more advanced work in the future." The reason doubtless ior the choice made (the cat instead of human subject) is no doubt the distance between the school of biology building and the medical building.

## McGill College.

There is no course in biology in this institution, and zoology is made subservient to geology and therefore is belind the time.

The dissecting room is in the medical building round the corner of the main University building.

Johns IIopkins University, Baltimore

There is a full course on human osteology (structure of the skeleton) given by Dr. Brooks, Associate Professor of animal morphology, which is compulsory on the students of the biological department. The dissecting room is at considerable distance from the biological laboratory and, therefore, renders impossible the requiring the biological student to take anatomy of the soft part of the human body. There is a course, however, for the biological students, in which the main facts of hum anatomy are taught and demonstrated, and a course of lectures is given in the same line and like that given by the professor of the department, Dr. Martin, in his "!Iuman Body."

## University of Toronto.

The curriculum requires of the pass arts student, under the head of biology, a course in the elements of human anatomy and physiology. Demonstrations are given in the subject of physiology, but except in the structure, etc., of bones (osteology) there are no demonstrations in anatomy.

In the fourth yetr honor biology, human anatomy (under the head of comparative anatomy) is one of the subjects a knowledge of whech is exacted of the student, but owing to the great distance between the dissecting room of the medical faculty and the biological laboratory, there is a great waste of time in going to and from the former. As the averago student must, in order to give himself a practical acquaintance with the other subjects of the biological course, spend over 600 hours in the laboratory-the curriculum demands 400, but that will not give the student the practical insight he required into these subjects unless he be excessively energetic-ho can, therefore, in 100 days have little spare time for anything else. In spite of this drawback half of the number of fourth year students are taking the dissecting course in the dissecting room of the medical faculty.
2. Dr. Macallum, Ly letter dated 7th April, 1891, expresses regret at the absence of Professor Ramsay Wright at this juncture and his hesitation in advancing himself as spokesman of the dcpartment, and encloses a resume of his arguments in favor of requiring a knowledge of human anatomy from the students in the arts faculty who are taking the honor natural science course, as follows :-
(1) In the pass course of the first year in arts there is required the knowledge of the elements of human anatomy amd physiolosy. These two suhjects are, admittedly, of a useful character to a student who takes biology once only during his undergraduate course. Whatever can be said in this respect for the pass student applies with greater force to the student taking the honor natural science cove. The latter is required to have a practical acquaintance with the comparative anatomy of vertebrates, the general typo of structure running through all the vertebrates; and comparison is possible on the part of the student, only when he knows the anatomy of one or more vertebrate forms thoroughly. In no one form is the structure so carefully workod out as in the
human subject, and about no other form is there obtainable in text-book shape the knowledge necessary to serve as a basis for comparison. It is only when a student is fairly well acquainted with human anatomy that he is capable of appreciating the bearings of comparative observations. From this point of view, then, hunan anatomy ought to be studied by the students of the honor biological course. Professor Wright holds, I know, similar views as to the relations of anatomy to his subject. The great difficulty in the way of carrying out such views has been and is the long distance between the dissecting room and the biological laboratory, and the consequently great loss of time to the student in passing between the two places. Because of this we have not done more than to recommend the fourth year biological students to take a course of dissection of the human subject. Half of them have, indeed, taken a partial course in the same this year.
(2) It may be stated that human anatomy is not a proper subject for an arts course. Regarded from the view of sentiment and, possibly, custom, probably not; yet whatever can be said in this respect against its place in the arts course may be said with apparently equal force against considering physiology as a subject of the arts course. The latter, however, passes unquestioned in the mijority of the English ard in the best American miversities, while it is considered as a medical subject, and arbitrarily separated from biology, in the German universities.
(3) The University of Toronto in regard to its honor biological course approaches more nearly the University of Cambridge than it does any other university (with the exception perhaps of that of Condon.) In Cambridge a theoretical knowledge of human anatomy, and a course of dissection of the human sulbject are required in every one of the examinations of the natural science tripos leading to the B. A. degree. I may also add that the thoroughness of the examinations in this subject for the B. A. degree far surpasses that of the examinations for the medical student even in the University of London. As a result, I believe, of this thoroughness, the graduate of the biological course in Canbridge is more carefully trained and carries more of his training into his subsequent scientific work than is and does the graduate of a similar course in any other university.

From the very fact that it is among the leading biological schools of the world, if it is not itself the foremost one, it appears safe to say that the most progressive teachers in biology regard human anatomy as much within the domain of their subject as the anatomy of a fish or of an insect.
(4) Human anatomy, taught as it is in Cambridge, is a science, not a subject merely for qualification for the medical profession, and as a science it is taught in Oxford, Owens, Dublin, and other universities. As a science it takes its place beside physiology, botany, and zoology, as a sub-department of biology. Probably a scheme, such as that given below, may show its relations to the other subjects of the biological course, and it may make clear the necessity of cultivating, on the part of the honor biological students, the study of one as much as of the other:

| Bhology . $\left\{\begin{array}{l}\text { Vegetable } \\ \text { Animal. . }\end{array}\right.$ | ```Morphology (structure) (including bacteriology). Embryology. Physiology.``` |
| :---: | :---: |
|  | Morphology |
|  | (a) Human Anatomy. <br> (b) Comparative Anatomy. <br> (c) General. |
|  | Embryology <br> (a) Human. <br> (b) General. |
|  | Physiology (a) Human. |
|  | (b) Comparative. |

$k$ slape the a student is ng the bearan anatomy ssor Wright
The great ing distance uently great of this we s to take a en a partial
arts course. et whatever e said with arts course. I in the best y separated
approaches y (with the e of human very one of I may also degree far niversity of e biological ing into his. a any other
he world, if ive teachers pject as the
iect merely rd, Owens, by, botany, that given nd it may 1 students.

## Recommendation.

It is expected that the number of arts students taking the indieated studies will shortly increase ; but at first they will be very few. The g!at bulk of the students who would most diiectly profit by the accommodations, in the tirst instance, wouid naturally be those preparing for medicine ; and it would not be proper at present to propose University provision for tuition.

The public is deeply interested in the provision of facilities for eflicient training in these suljects, as also in that of hacteriology, the morlern discoveries in which have opened such vast and important fields of inguiry and researeh in the direction of the origin and prevention of disease; and it would seem that facilities in some of the subjects may be afforded without material cost to the state, by allowing a certain use, meanwhile, of some of the accommodations of this bilding to the students preparing for medicine, on condition that the arts students in biology slatl oltain on equal terms the benctit of the instruction; that the arts department shall enjoy such use of the premises as is requisite, and that the University shall provide, out of the forty per cent. reserved from the medical fees for ruming expenses, an arlequate allowance for the accommodation.

The temporary use proposed is of the attics, and the occupation for two hours per day of the leeture room, and some basement accommodations; and it is proposed that for such use an allowance should be made to the University, based on the cost of that part of the building, calculating interest at 4 per cent., the rate of charge as hereafter set out.

We are satisfied that $\$ 1,200$ per annum would be a just and adequate allowance on thes basis.

The expense of maintenance and repairs should be borne in like proportion.

## Department of Chemistry.

The evidence as to the needs of this department is as follows.

## 1. November 7 th, 1890.

Letter from Professor Pike to the Senate, stating that this term, notwithstarding an increase in the number of working places in the laboratory, there remain excluded 15 students for whom no provision can be made, and that a new chemical laboratory should be immediately constructed; also, stating that the large number of lectures to be given by the professor, requiring time for preparation, prevent his taking any real share in the practical instractions, and that the whole practical work falls on a necessarily inexperienced Fellow, who is called on to teach more students simultaneously than the most experienced teacher could possibly do ; anc that there is an outspoken feeling of discontent among the students; and pressing the appointment of a demonstrator of ehemistry who can superintend the practical instruction, and assist the professor by undertaking some of the lectures.
2. Letter from Professor Pike to the registrar, for the information of the Senate Committee, giving further details on the above subjeets, stating that the time regnired for the delivery and preparation of his two experimental lectures per day takes, in all, about four hours; that during the leeture to one class the others are receiving their laboratory tuition, and that in eonsequence the professor cannot take any real share in the practical teaching; further, that the fellow has to take charge of the laboratory every day of the week from $10 \mathrm{a} . \mathrm{m}$. to $6 \mathrm{p} . \mathrm{m}$, hass to superintend a elass of 49, 41 simultaneously, of whom 40 have never been before in a lahoratory ; and renewing his request for the appointment of a demonstrator; and suggesting a salary such as is paid to the demonstrator of physics.
3. The report of the alove Senate Committee, recommending the appointment of a demonstrator at a salary of $8800^{*}$
4. The resolution of the Senate, recommending the appointment of a demonstrator, for which appointment the Board of trustees have appropriated \$400, being at the rate of $\$ 800$ per year.
5. Memo. from Professor Pike, for the information of the above committee, as to the requirements of the department, based on two assump,tions:
(1) On the assumption that only students in arts are to be provided for, in which case Professor Pike requires
(a) A laboratory to teach 100 students, with lecture rooms.
(1) for 150 students,
(2) for 50 students ;
(b) A demonstrator of chemistry as above mentioned.
(2) On the assumption that the dapartment is to undertake the whole of the tuition in the faculties of arts and medicine, and elementary classes of the school of science, lectures only, he requires
(a) a laboratory harge enough to teach 200 students practical chemistry, with lecture rooms for 300 and 100 stadents;
(b) Besides the proposed demonstrator abore mentioned, a demonstrator for the medical students, and a Eellow for them.

Professor Pike states that at present the students attending his leetures are:-
Arts.
Chemistry, 1st year pass and honor ........................... 49
" 2nd, 3rd, and 4th years, honor ..................... 49
Department of plysies and mathematics......................... . . 15
School of Science.
Applied chemistry . ................................................... 3
Engineers, -nd year . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 23
(Tio be increased to 47 next year.)
Medicine.
Ist year . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 84
2nd year . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
24

Total
297
And that the students taking laboratory work, arts only, are registered up to 64, of whom 15 are excluded for want of rom and of tuition. Professor Pike adds that all the medical and school of science students receive their instruction in practical chemistry from the school of science and not in the University laboratory.
6. January 14th, 1891.

Lefter from Professor Piko to the registrar as to the work dons in his depurtment,

[^0]and the causes of his declining to continue lecturing to the medical students; that his present work consists of lectures delivered by him, and of laboratory practice, which Dr. W. L. Miller looks after, under his supervision.

That his present lectures per week are:-
$\frac{2}{2}$ inorganic (arts, medicine, and School of Science),
2 advanced ( do do ),
$\underline{2}$ elementary orginic (medicals only),
3 organic (arts only).
1 special lecture to 2 nd year chemical and mineralogical students.
10 in all.
That he is hard at work every day from $10 \mathrm{a} . \mathrm{m}$. to 6.30 p.m., with not more than half un hour for lunch.

That six of the lecture are to large audiences, requiring a loud tone; and that the continuons taking in lecture-room and laboratory has so weakened his throat that even had he time he could not deliver a third lecture.

That, save one lecture to the second year men, none are given to the students in chemistry and mineralogy.

That no lectures at all are given to the 4th year men.
That the consequences are very apparent, and the effect on the students in the department in the earlier years is still worse.

That in the third year the tuition is identical with that given to the students in the natural science department, and the consequence is that the men know very little more than the natural science men who are required in addition to chemistry to pass examinations in biology and geology.

That these defects have become so glaring that it would be inconsistent with his duty to continue to deliver to medical students special lectures, the delivery of which prevents any attention to the students in arts who are to graduate in chemistry.

And that he would like an opportunity to explain in detail the work, and the absolute need of some re-arrangement of the teaching.
7. January 8th, 1891.

Report of the Senate committee appointed to consider the question of new buildings for the departments of chemistry, mineralogy and geology.

That there is a very pressing need of increased and more suitable accommodation for these departments.

That plans and statements of the necessary accommodation, as submitted to the architect by the professors, are estimated to require for chemistry from $\$ 75,000$ to $\$ 100,000$, and for mineralogy and geology $\$ 40,000$, but it is thought that these sums may be materially reduced.

That, should an arrangement be made with the Ontario Government to pay a rent charge for the ground occupied hy the School of Science after the departments cease to use the building, the rent might be set ajainst the interest on the cost of the proposed buildings,

And that the Ontario Government might bo legitimately asked to meet part of the expense of providing the required accommodation, since students in the School of Practical Science receive instruction from the officers of the departments.
8. The Report of the Senate committee on teaching facilities, mentioned earlier, to the effect that the accommodation applied for by the professors in chemistry and mineralogy and geology is urgently required and should be provided, just as soon as the financial position of the University will admit.
9. Professor Pike in answer to the request of the Committee :-
(1) To explain the relations existing between the department, the School of Practical Science, and the Medical Ficulty, states as follows:
(a) The Medical Faculty expects the University to supply all the laboratory and lecture instruction requisite, and the present arr:mgements are only temporary expedients to overcome the want of rom and of teachers.

The division now is, that Professer Pike gives all the lecture instruction, and Dr* Ellis of the School of Science all the prastical tuition to the medical students.
(l) It is understood that under the arrangements between the School of Science and the University, the University teaches free of cost any School students who come forward.

For reasons given later only 24 out of 90 are at present availing themselves of this privilege.
(c) The following are the statistics of tuition in chemistry for 1890.91:

Statistics of Tuition given in Chemistry, 1890-91.


He adds that the number of students at present receiving tuition from him is upwards of 290 , of whom 50 are honor students.
(2)-(a) There are in addition to 10 hours lectures, 40 hours of tuition in practical work, making in all 50 hours of actual teaching; and this without reckoning the time needed to prepare experiments and materials.
(b) The teaching of an experimental science must always demand much more time money, and assistance, than reading lessons in French grammar or French literature.
(3) To compare chemical departments elsewhere with that here: In the Massachusetts College of Technology provision is made to teach chemistry to 500 students, and the staff of teachers is 17 . Here Dr. Ellis and Professor Pike with two Fellows have to teach 350 students.
(d) The method of supply in the laboratory of the University for practical work is to supply all apparatus free to students, charging only for what is not returned, and $\$ 1.50$ for apparatus used in work.

The amount realised thus has been considerably under $\$ 100$ a year and about onethird of the laboratory expenses for practical work.

The medical students have contributed an average of about $\$ 106$ a year to the laboratory of the school.
(e) As to any proposal to charge laboratory fees, it is not desirable or fair to place students in science in any different position from other students in arts by charging laboratory fees.

But the fees now charged arts students by the University could be doubled without any real diminution of the number of students ; the 500 arts students would thus contribute $\$ 10,000$ more to the funds, and the charges would be but two-thirds of those of Trinity. This view is shared by several old graduates.
( $f$ ) The inedical students attending the University lectures in chemistry have this year paid the medical faculty, in fees charged for the chemical tuition alone, $\$ 2,465$.
(g) Dr. Ellis and Professor Pike agree in thinking that a combination of the teaching in chemistry of the arts and medical students with that of the students of the school is undesirable and incompatible with good results, becaus -
( $g a$ ) The tern of the medical faculty of the school ends before that of the arts faculty; so that either the medical students do not get all the lectures, or the lectures nust be too much condensed.
$(g b)$ The numbers of the three sets are too great to enable them to see the experimental demonstrations satisfactorily ; nor can the lecturer ascertain the progress he is making with his class.
These numbers now amount to 350 and Victoria will increase them to at least. 400. Of these there will then be about 160 to 180 arts students: from 75 to 85 in honors, requiring practical work, of whom there are now 65 ; and from 90 to 100 pass students.
To teach these numbers necessitates a considerably increased staff and very greatly increased accommodation.
( $g c$ ) The requirements of the arts and medical students differ; and the subjects should be presented to each differently.
After nine years trial of joint tuition the Board of the school withdrew their elementary classes from the arts lastures, and provided special lectures for them in harmony with the School course.
The arts students are taught the science of the subject, while the medical and school students should rather be taught the applications of the science to their own subject.
(gd) While the arts students voluntarily select the science as one for which they have a taste, the medical students are compelled to attend in order to pass an examination, which is in general distasteful ; and they constitute in consequence a disorderly section of the class, declining to give attention to any part of the subject which they think superfluous for their own examinations, and thus distracting disastrously the attention of the arts students; and there are ccnstant jealousies between the two sets, which increase the disorder.
(ge) Dr. Ellis thinks that if provided with proper assistance (demonstrator, etc.), he could for the School of science undertake the joint teaching of the medical and School students.
( $g f$ ) The fees paid by the medical students would pay for a demonstrator, and go far to pay the laboratory expenses also.
(h) As to what can be done pending the completion of a laboratory?

If the question of a laberatory is early settled, it can be ready by October, 1892, which leaves only one academic year to consider.

In this view
(hit) If the Senate will alter the curriculum by postponing the demand for laboratory tuition for students of mathematics and physies for this and next year ; and
( $h 6$ ) If the Minister of Education will arrange for the teaching of caudidates for the "First A" examination elsewhere, the work can be continued for one year in the present quarters but no longer.
(i) To place the chemical department on a satisfactory footing it is necessary to have-
(ici) Additional lectures in the arts department of chemistry and mineralogy; about ten per week.
(il) A secoud lecture-room in ease medical tuition is to be part of the duties of thedepartment.
${ }^{\prime} i_{r}$ ) Additional accommodation.
(2i) An experienced demonstrator to undertake part of the lecturing and practical teaching; the $\$ 800$ a year fixed at present will not secure a proper person save on an. undertaling to mise the salary to at least $\$ 1,500$ a year within three years.

## Recommendution.

This evidence makes it clear that the present temporary arrangements are whol!y inadegnate, and should be changed as soou as practicable.

So far as cam be conjectured, without detailed plans and estmates, the requisitions of the prof sior would involve an expenditure (fur a building allergtate for the instruction of tooth students in arts and students in medicine) of $\$ 100,000$, of which possibly $\$: 3,000$ may be the amount required for students in medicine.

But it is thought that, $y$ cutting down the size and the character of the materials and architecture to the lowest point consistent with true peonomy and effieiency, the cost may be reduced to (say) $\$ 80,000$, of which $\$ 50,000$ to $\$ 60,000$ would be the moont requisite for arts, and $\$ 20,000$ to $\$ 30,000$ the additional amount. requisite fur medicine.

Thus the extent of the building requirements depends on the question raised in the evidense. whether the students in medieine are to receive their instruction with the students in arts, under the supervision of the University Professor, or with those in the School of science, under the supervision of the professor of that School, who is also Professor of Chemistry in the medical faculty, and who now conducts the praetical work.

It is suggested that the latter course is, for several reasons appearing in the evidence, and on the ground of economy, as to buildings, in the present condition of the University funds, the more advantageous; and the existing accommodations. of the School of science under the proposed re-arrangement will be ample.

If this view be alopted an agreement should be made under which the University should, out if the 40 per cent. of the medical fees reserved for running. expenses, provide for any extra expense attending the tuition of the medical students.

This done, the building needs of the department will be limited by the require manis for students in arts.

To answer these requirements it is proposed to erect a plain brick building; and it is obrious th that this work is most urgent, and that plans should be obtained and the work put under contract the moment ithe necessary financial arrangements. can be male.

## Department of Mineralogy and Geology.

The evidence as to the needs of this department is as follows :-
(1) November 5th, 1890.-Letter from Professor Chapman to the Registrar for the Senate Committee stating:-
(a) That aprart from the need of an attendant, since provided for, no additional assistance as rugards tuition is at present needed.
(b) As to ncommodation, that the present accommodation is utterly insufficient, and is otherwise quite unsuitable, being in great part underground among coal cellars and water closets, manitary, damp, and ill-ventilated.
(2) November 10th, 1890.-Letter from Professor Chapman giving details of the required accommodation us follows:-
(1) Laboratory for seeond year students in arts with fittings for fifty or sixty at least.
(2) Ditto, for third year arts, fitted for thirty to forty at least ; which might serve also for Ftllow's room.
(3) Private laboratory adjoining, which might also serve for professor's room.
(4) Assaying room fitted for eight to ten students at least.
(5) Adjoining balance room.
(6) Small room for use of instruments, etc., for fourth year students.
(7) Store room for crucibles, muflles, and test minerals in practical use.
(8) Well-lighted room near lecture room (10) to hold a working collection of minerals, works, and fossils, for constant inspection.
(9) A well-lighted room to hang maps and prepare diagrans.
(10) A lecture room for 150 students at least, near museum (12).
(ll) Additional instruments and apparatus, goniometers, siauroscopes, polariscopes, spectroseopes, ghas-furnaces; those now in use being absolete and worn out.
(12) A collection of minerals and fossils, the cost of which might be borne by the insurance on the late geological museum.
3. The report of the Senate Committee stated as number seven under the head of Chemistry.
4. Tho report of the Scnate Committee stated as number eight moder the heal of Chemistry.
5. December 15th, 1890.-Letter from Professor Chapman stating that :-
(1) The present accommodation and appliances are utterly insufficient for the increas ing number of students taking practical work. This compels several sub-divisions of tho class of each year, necessitating repetitions hy the Professor of the work; thus each student oltains only one-half or one-fourth of the instruetion he would otherwise reccive.
(2) The rooms for the instuction are half underground, among cellars and waterelosets, unhealthy and ill-ventilated. When the furnaces are lighted the rooms are overheated, the pipes for other parts of the building being rarried throngh the rooms over the heads of tho students; at other times the rooms are excessively damp and cold. In spring and autumu iron rapirlly rusts, and books and papers become wet.
(3) The only places for keeping and showing specimens constantly required to be studied, are a small passage-way and a cellar. Specimens and instruments have to be carried at almost every lecture up and down three flights of stairs, and :Along corridors; and there is no room for students' work between lectures.
(4) Yet the department is regarded with great interest by the public, hardly a day passing without applications for information on matters connected with the Mineralogy and Geology of the Province ; thus, last October there were thirty-two such applications, and last November twenty-nine, all replied to without charge, in the interesta of the University, by the Professor.
6. Professor Chajman ly letter of 26th January, with reference to queries advanced at the meeting with the faculty, expresses the opinions:-
(1) That the totching of the University and the School of Practical Science an be protitably combined, as regards his department, if there be provided a lecture room for 150 to 200 students, with separate laboratories for second your and third year students of the school and the University; but that, as ths students increase in numbers, some additional assistance would be needel.

The chief drawlack is that the Schont session ends before that of the University, thus interrupting, for the cxamination of the Schoal students, the arts lectures, just when the arts students require additional instruction in view of their approaching amination; but additional assistance would meet this ditticulty.

Additional assistance involves additional space. To be of real benefit, the mineralogical and assay laboratories, and the geological museum, should be open to students during the greater part of the day.

There is now but one laboratory for the work of the second and third year eugineers, and the second, third and fourth year University students.
(2) As to temporary provisions for the next two years, he would willingly put up with any inconvenience and do his best to carry on the work memwhile, if there were visible any near prospect of proper accommodation.
(3) As to the possibility of obtaining assistance from fees, he is strongly of opinion that many students are taking honor (..e., practical) work without any proper preliminary training or appreciation of the work itself. He thinks honor work in natural science should be undertaken only by students who have a special aptitude for it, anc are prepared to get proper apparatus and books; but too many take up the work in a very careless und desultory manner, without any intention of continuing it, and even disposing of their instruments and books after the examination.

They come for a degree, and not for practical knowledge, and a tolerably high fee might tend to keep students of this kind from attempting work for which they are really unfitted.

Students of the second and third years pay a laboratory fee of $\$ 1$ and $\$ 2$, which there is always difficulty in collecting.
(4) As to the probable results of confederation :-

It will necessarily increase, and probably greatly increase, the number of science students.

And as the numbers are, apart from this, rapidly increasing, it will be utterly impossible to cope with the numbers with the present accommodation.

The subjects have so multiplied that no one subject will be able to receive more than one lecture or one practical lesson per week, a most undesirable condition for the student.
(5) The proper work of a University, as distinguished from School work, is as follows :-
(a) Lectures.
(b) Examinations based thereon.
(c) Any preliminary training or additional tuition required by students should be obtained from outside tutors.
(d) There should be ample opportunity for practical work, but this should not, as regards examinations, be compulsory, because no laboratory will accommodate more than a certain number of students, and hence, many desirous to enter will often have to wait for a vacancy.
"Honor" students have been manufactured to a most pernicious extent, at least n the scientific departments.
ardly a day Mineralogy applications, rests of the
os advanced
ence can be re room for - students of e additional ctures, just lproaching
e mineralo. ents during
r engineers, agly put up there were of opinion oer prelimiin natural for it, anc work in a and even rably high ch they are
$\$ 2$, which
of scienco be utterly eive more on for the

Nine thenths, if not mare of the homor men seines, wout into the world, and aiter all the onthy involvel in their taition, do wind tation of the Uuivensity.

## Recommendation.

This denatmont, so inportant to a province with the vast mineral resources of Ontmin, sullers lanmataly from the wat of necomodation. and the provision of proper facilities for its work in ol wreat emserpmone.

The present weommadians are trmporary, imalequate, and manatable.
However erious the draft on the risurecs of the Uniwersity, it will he necessary to propose a bualdius untess some other urtamement cam he mad.

But it is generally maderstood that the Government has in e ombmplation the recognition of tha great mineral interests of the province by lh, ereation of a school of Mines; and it is suggested that a flam may be devised mater which, without appreciable extra cost, ascomonations for learnug a lare part of the proctical work cat be there obtained for the sublents in arts, and that the provition renuired for the special and distinctive University work may that lugely be armand for without watiful duplication of buildinus anil stal!:

It is rewomended that andent whald be man, to iming about thas ensult, beforo ombarking in the ntherwise meessatry expeaditure in building.
 it may be worth while to, inquive whether temprary nee win be mude of the lower mussum flat for the accomondation of the department.

## Grmpasium.

This is a very urgent want for students, the greater part of whose attendance is during the inclement winter months.

A gymasium und.r University control, in close proximity to the class rooms, and
 plan, and should he provided at the eartiest moment.

Shortly lnefore the tire a subscription was stated anong the graduates and undergraduates for the purpose, and about 83,000 is in liand.

But that great-calamity, which olliged all thoee interested in the University to devote their means to restoration instead of improvement, has rembered it iupossible to enlarge this funt.

It is proposed to erect a gymasimm widh which may be combined rooms for a students union, and which may be made available as a temporary Convocation Hall, at a cost of about $\$ 20,000$, leaving the supply of the appuratus ithl titing, to subsicription.

## Reshmence.

This is an important elemen of the Uaiversity. Io is mandily wirel in Univer sity circles that the resilence should be: preserved and insterel as one of the forces which make for good in the student life.

The new residence of Trinity is found very attactiv, as will undoubtedly be the projected residence of Victoria.

Our dormitories are too lew in number and antup at ot in style.
There is at present dininwrom and ki wh wonnltan sulficient for a much larger number of residents than tho dormitsrie, will weon indate.

A plain brick building to the north of the prow , when containing dormitories for 100, could, it is believel, be comploted for ab, I, $\$ 210 \%$

Subscriptions to the amount of $\$ 1,000$ are 1 h hい 1 fir ui, objoct.
The residence can and should be male, in it, "utfol twom, selfoustaining, as is the present residence, and can and should also ( ta - $1 \cdot \boldsymbol{A}$ rates, the new higher than the old) be made to py the mberme on the cost of the addition, so that its construction will involve no charg, athe iaco ne funl. This work is recommended. Certain evidence is appended.

3 (U)

Profesars liaker as dean of rexidenco by lettur of Jumumy ifth, 1891, reporta the following facts mad opibions:-
(a) The present dining-room accommodation is nmple for 100 mditionm resicients,
 these advantadonsle, it seems heoessary that the incomed room should be obtained by the erection of a huilding inmedintely to the north of the ghent wret wing.
 ance of a very long coridor uppears best $t$ contrihote to dixeppline. In thes institutions also, the moms ner in ats of three-s sitting won with two bed rooms attached, suitable for two sandents. This armogement combl hold, aloug with dintinct rooms that might be let ut elever rate thon half that at which the sete wore rewted.
(c) The arretion, of a building capahle of lodzing 100 would supply rooms for about one-thid of cha stadents, and sheh partinl ntompt to moer the interests of the institution would sem judicions in viow of the oxperimental character of the undertaking.
(d) He has con ulted Vr. Dick as to tha cost of a huildin,s, such as is hure roughly entlined and lee beliowes it could be put u! for sli, 000 or sit 6,000 . His estimate ran scmucoly in luck stom titting and planting.
(c) To secure the ise of the hmiling ly our stulents, it womh lue necessuy to reduce
 a month. He is disposed to think that ereant threse bates the incrased numbers wonld secure ma economy of living, that would cautg a surphes to be used in payment of interest on the cost of thr midiling.

## Convocation llall.

Derply as those who love the University resent the loss of the Cinvocation Hall, importent as they regard it, and earnestly as they disire to ser provision mude for its erection, yot it is thought prodent in virw of still more urgeat need to postpono the expenditure nocessaty for this ohjort.

Some meeting place, lowerr, there musi bs, ind it is suggested, that ponding the improvement of the resourees of the University to he indicated in this report, the gymmasium may he utilized for the meetings of Oonvocation.

Money liequlred; Finance.
The general result as to the money to be provider for is as follows:-

## Already Undertaken.


Cost of biologicai museum addition . . . . . . . . . . . . . . . . 65, 000
897,167
New Buildinqs Proposed.
Chemical building . . . . . . . . . . . . . . . . . . . . . . . . . . . .
Gymandium, Union, and temporary Convocation and metting room . . . . . . . . . . . . . . . . . . . . . . . . . . . 20,000
Residence . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 20,000
$\$ 100,000$
Grand total . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 197,167$
say $\$ 200,000$.
To adjust this amount, the following plan ie proposed :-
Legislative power exists under the University Act to issue debentures secured on University assets, to an amount not exceeding $\$ 200,000$ for the construction of buildings.

The nature and extent of these assets appear in this report. They are such as to render the suggested operation absolutely secure.

I, reports the
mal residinnts,
To, emplay - ohtained liy名。
1 this avoil. Ches: institu pina attached, trooms that
ly rooms for rests of the if the under-

1 as is hore
0. His esti-
ry to reduce ts at, say 82
mbers would lent of inte-

Lation Hall, mude $f(\boldsymbol{n}$ its oostpone the
poruling the report, the

It is propased that legishative anthority should be ol,taned hy the Government to give the provincial ginaraty to twenty yor dubentures, at isur per eent, which, it is beliaved, can then be issued at ar abowe par. A parliamentary murtgage in favor of the Crown of the whole assets of the University now vested in the Crown wond leave it alowhlutely secen"; the 'rown conld recoup itseli at an hour's notice, and the provincial instituiom would thas, withur' I iny to the province, be enabled to proceed in its neressury work. The interest charge wond be 88.100 "gear. But this sum would be reluced hy the rental of part of the bidogical halding, sh, 200 , and the reconpment by the revidener af the intereret on the sist of midition. S800, in all $8=0,000$, to 86,000 a $\begin{gathered}\text { year. }\end{gathered}$

Int this balace would hee further reduced by the allowace for gromen rent which it is mad rstond botwen he Minister of Bducation and the Univervity is to be male for the wite of the Schenl of l'ractical Sciener, so soon as the University (avniling itself of the new bailding) is nhle to discontinue its present occupation of that building for the Arts facuite in the department of chemistry.

Rem -mbering that at the present time che batance advanced on the bislogical building entaida liminution of income (ealenlating interest at six per cent.) of $\$ 5,800$ a year, it in clear that tho combined result of these arrangements would 1 on to provide 8100,000 additional for huildings, not merely withont whditional expen ef for interest, but with in absolute saving of a considerahle part of the present interest charge.
$\therefore$ a to the eapital, it appars hy this report, that the realization of unproductive property will, long before the mathity of tho debentures, provide for its repament many times over, withou interfering with the present investments, or reducing the present incolnc.

There is, of course, the cost of maintemance to be considered; but against this may be set the increased attendane, and consergent increased receipts for fees, which experience shows follow incremed acemmodations.
bisides, it will he some time before maintenance charges begin, during which interval it is expected that the income tual will largely increase by sales.

1ASIT iv.

## Theoretica! Atrongement of Offeres.

Assochath Professons.-Representation on Counclls.-Appointments and Pro-mothons.-Sidaries.-Apphcation ro Existing Staff.-Rethement Fund.-
 Thereon.-Finascial Results and Casio Uutlay.

In considering the recommendations to be made to meet the present exigencies. it seems important to suggest a theoretical arrangement towards which we should work, and in that view a scheme is presented.

Associati Professors,
The office of associate prefessor is recommended on various grounds. It provides mearis to meet a case in which a professor, through increasing years, becomes, though still capable of good work and not rije for retirement, less able for full duty. It affords an opportunity for appointing or promoting to an intervediate grade in cases in which the interests of the University would be served by such promotion; but when, either from tinancial or other considerations, it is not though. that an appointment should be made to the office of professor. It provides a greater measure of elasticity, which may from time to time be found very useful in working out the details of management.

## Representation on Councils.

The recommendation is approved that every associate professor should have a seat $z^{\prime}$ and that the executive should be empowered to appoint any lecturer to a seat on the
council of his faculty. And it may be alded that the working of each of the faculties of arts, medicine and latw would be facilitated by provision for stated conferences in council of all the members of such faculty.

## Appointiments.

No appointment should be made until after a fair opportunity has ber a given to intending applicants to prefer their chams.

No oflice should be established, or chair filler, or permanent engagement made, until there are funds adequate to the salary properly assigned; experience shows the erors and inconveniences resulting from such premature appointments ; and therefore, for example, it is recommended to postpone the creation or filling of professorships uatil th: funds are available, and to provite for cmergencies meanwhile by the tempotiary appointment of additional lecturers and Feilows.

## Promotions.

The rule cannot be too clearly unlerstond that the appointinent to an office of iower erade involves no clain or expectation of a right to promotion to a higher place.

The man who is tit for the lower may be unfit for the higher work; the man of whom great expectations were entertained may fail to realize them; and the Executive must be absolntely free to choose the very lest man available at the moment when the post is to be fille?

Alvantages those already $i^{2}$ the service will always have; the alvantuge of friendship and connection with colleagues and students; and the advantage of opportunity of showiar on the spot by the work they have done, their capacity for higher work.

With these advantages all must submit to the rule detur digniori.

## Salaries.

It is thought that the best and most improvin:s service can be obtained at the least outlay by the plan of lower initial salures, increasing by regular increansts.

It is not advisule to provide that the initial minimum shall be always necessarily observel, as this might on rare occasions render impossible desirable arrangemsats.

But it ought to be the rule.
The salaries to be suggested inelude the sums intenled to be reserved for a retirement fund.

It is proposed that the educational stalf in, arts should be composed of officers of the following ranks and salaries :

## Professors and Associate Professors.

Profensors.-To be appointed at a minimuin initial salary of 2,500 , increasing by yearly increments of $\$ 100$ to 33,200 .

Associate Professors.-Initial salary $\$ 1,800$, inereas: as above to 32,500 .

## Lecturers and Demonstrutors.

Initial salary $\$ 800$, increasing as above to $\$ 1,800$.

## Fellows.

Salary $\$ 500$.

This plan, of course, is not intended to apply to the oxceptional cases of profenso ; who give only a limited portion of their time, as those in law, or to interfere will 61 , power to make temporary arrangements for assistance, or to affect special considerations as to salaries which may have been fixed under exceptional circuinstances.

## Other Officers.

The same principles as to salary and retiring allowances should, as far as possible, be applied to the other high officers.

And the following salaries are suggested :

> President (when held in connestion with a professorship at the full pay of $\$ 3,200$, and including allowance for house rent, thus keeping the total eombined emolument at its present figures)
> \$1,800
> Librarian, initial salary . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1,000
> Rising to................................................... . . . . . 1,500
> Registrar for both University and Colloge, (not ineluding remuneration for services if employed in csunection with the library), initial salary 800
$\begin{aligned} & \text { Bursar, initial salary .................................................... } \\ & \text { Rising to, (from which for the present house room pro- }\end{aligned}$
vided $\$ 400$ should be delucted)
3,000

In this connection a letter from the bursar is appended.
By letter of 1st April, 1891, the bursar states as follows:-
With regard to my salary as bursar: At a meeting of the Board of Trusters held on 9th January, 1890, (at which all the members were present with the exception of yourself and Mr. A. H. Campbell), the following minute was made:
"It is recommended that the bursar's salary be inereased from $\$ 2,200$ to $\$ 3,800$ a year and that this increase date from 1st January, 1890 ."

This minute was subsequently communicated to the Govermnent throngh the Minister of Education who repliel to the effect that the matter had been laid before Council, but having regard to the great demands upon the University funds it was deemed advisable that no increase should be made at present. In addition to my silary of $\$ 2,200$ I have the house in Simeoe street less therooms occupied by the office. I am allowed $\$ 100$ per ammum to cover the cost of heating, gas and attendance.

The salaries of this office are now:

$$
\begin{aligned}
& \text { Myself . . ................................................................ . . . } 82,200 \\
& \text { Clerk ... ............................................................. . . . } 400 \\
& \text { Boy .......................... . .................................... } 100 \\
& \text { Fuel, ete . . . . . ............. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } 100 \\
& \$ 2,800
\end{aligned}
$$

In 1877 to , Iune 30th, (the year of my appointment), the salaries were:

$$
\begin{aligned}
& \text { Bursar ...................... . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . §2,400 } \\
& \text { Aceountant, tte . ...................................................... . . . } 1,400 \\
& \text { Messenger ................. ........................................ } 400 \\
& \text { Fuel ...................... . ................................................. ... . . } 90
\end{aligned}
$$

The work has doubled since then. I should add $\$ 130$ paid to a gentleman who assisted in keeping the accounts in the evenings. The numeronstatements prepared are also done out of office hours by additional assistance For yerr; I did all this work myself altogether out of office hours without receiving a penny fir it, but my health brcame affected by it and the work had to be done by others.

Under my supervision my clerk, F. A. Moure, is most "fiinsient; lie only receiven $\$ 400$ a year ; I think he should be paid a larger salary.

When I was appointed bursar the house I occupy was in a most dianidated condition, not habitable, and about $\$ 1,200$ was expended on repairs, towarla which I paid $\$ 400$; the building was then the property of the U. C. College. Taking all thinga into consideration I think this sum might bo returned to me.

## Application of these Salaries to the Existing Stapf.

It is of course distinctly understood that there is no intention of creating any expectation of increased renumeration beyond that specified in his contract, on the jart any existing officer unless and until the time arrives when, in the opinion of the executive, the resources and the intercsts of the institution render propar the consideration of his case, with a view to putting his name on the salary roll for an increase on the conditions as to the retirement find specified in this report.

The following rules may be laid down:

1. Subject to the special consideration to be stated concerning the retirement fund, no increase of salary should be granted until there are surplus revenues available for the purpose.
2. No revenues should be deemed available for the purpose until the more urgent needs of the institution for additional teaching power as well as for current expenditure are provided for.
3. In dealing with individual cases, when the revenues do not admit of meeting all at the same time, reasonable regard should be had to the view that the smaller salaries of the lower grades should be earliest improved; and that, in cases of the same grade, the condition of those longest employed should be first ameliorated.
4. Had the revenues admitted of applying the scale to all the existing cases fully and at once, the principle might be adopted of counting the former years of service of the officer, for the purpose of ascertaining what his position would be in case he had been appointed at the proposed minimum with the yearly increment ; not, of course, with a view to any suggestion of arrears; but in ordse to place him for the future.
5. But, in the condition of the revemues, it may be juster and more advantagrous, so soon as funds allow, to begin a system of yearly increments, thus improving graduait, yet as rapidly as the revenues permit, the position of the various otficers.

## Retirement Fund.

The report of the Finance Committer adopted by the Senate on Tanuary 13th, 1882, recommended as follows :-
"It seems clear that some general equitable plan ought to be adopted, whereby contributions should be made by the Professors and other members of the staff towards a superanuation fund, and the amount of allowar $e$ and conditions of retirement declared. In this connection it would be well to consider how far the Canadian civil service superanuuation system, with such modification as the difference of age on entrance involves, might serve as a basis. It is possible that the plan of reserving a portion of the salary and creating thereout a fund for each prufesscr, bearing interest meantime, and payable, principal and interest, on retirement, might be nore suitable.

In view of the recent increase in the salaries, the present time seems esprecially suitable for the settlement of the question."
gentleman who ts prepared are 1 this work myhealth brcame
in only receiver
liandidated con* which I paid king all things
f crearing any ct, na the jart opinion of the er proper the ary roll for an ceport.
tirement fund, avail:able for
intil the more is for current
mit of meeting at the smaller es of the same
cases fully and service of the he had been course, wit'l $~ 子$ e.
advantagrous, ing gradual:

Ianuary 13th,
wherely conaff towards a nent declared. service supernce involves, of the salary and payable,

It is greatiy to be regretted that no steps have been taken to carry out this recommendation.

Many appointments have heen made, several salaries have been raised, new increases have become old, and difficultias which some years ago impeded the prosperity of the University, p.nd expenditures whirh it could ill afford, will probably recur in consequence oi the delay.

Further delay will make mat ars worse, and immeriate action should now be taken.
Although the appointments ate during pleasure, and carry no legal right to retiring allowances, still the University Ac. Ite is permissively with the subject; precedents have been created under that Act ; and, apmot from this, general experience teaches that it is expedient in the case of Govermment amt pubicinstitutions to grapple with the question.

It is proposed to treat it by est.hbinhing, as a condition of the contract of employment, a retirement fund for each ofticer thrqugh the retention of a portion of the sum which would otherwise have been paid nver to him as remmeration. This sum is $t$ to be kept invested and reinvested by the University with its other funds; and interest at 6 per cent. per annum compounded half-y"urly is to be created on the aceount.

To the accumalations at the credit of the account, the officer is to have no claim during his service; but on his retirement $i t$ is to be his; or on his death in the service it is to go to his family as he may direct, or, if he have no wife or children, then as he may direct.

The charge which the University undertakes of managing the fund, and securing it absolntely, with interest at 6 per cent., and without cost to the olficer, while a great advantage to the nfhicer, will be amply repaid to the University by the freedom which the provision will give for dealing promptly with cases of intirmity or incapacity, and by the saving of charges for pensions and allowances.

The following rates of reservation are suggested:
For the salary up to $81,000,5$ per cent.
being for 81,000 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 50.00$
For the part between $\$ 1,000$ and $\$ 1,800,7 \frac{1}{2}$ per cant.
being for $\$ 800$ 6000
being for $\$ 1,800$. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 11000$
For the part part between $\$ 1,800$ and $\$ 2,500,10$ per cent.

being for $\$ 2.500$. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . \$180 00
For the part between 82,500 and $83,200,15$ per colt.
being for 5700 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 10500
being for 83,200 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 828500

Application of Regulations for Retimement Fund.
It is proposed that this plan should be compulsory with regard to-

1. All new appointments.
2. All existing appointments in respect of which increases of salary may be made, so far as such increases will provide the means of carrying out the plan as to both the existing salary and the increase
It is to be observed that the practical working of this provision will be to apply to the retirement fund the whole of the suggested increases in thr cases of professors now receiving salaries up to $\$ 3,000$, aid that it will bring the plan into earlier and more general, though not always into entire operation, in numerous existing cases, to the great general advantage.

It is further proposed that all existing appointees shall have the option of taking the full benefit of the plan from the date of its inception.

While it is not possible to suggest that the contracts with existing officers shall be altered without their consent by the reservation of any part of the existing salaries, yet it would be reasonable, in conveying this offer to recent appointees, to intimate that the executive holds itself under no moral, any more than it is under any legal obligation, to propose any provision for retiring allowances out of the general funds for such more recent appointees as do not choose to accept this plan, in so far as it is left to their option.

## Early Commencement of Plan.

As already indicated, a considerable portion of the total increases will be absorbed in the retirement fund; and it is suggested that in the general interest any such increase (to an extent not exceeding \$200) as would be in the whole or largely so absorbed, should (in order te admit of the immediate commencement of the operations of the fund, and thus to facilitate a scheme which is regarded as greatly alvantageous io the University) be made at an early date, irrespective of the condition at this moment of the revenue; out of which this course will involve but a trifling outlay in cash.

Our pension list a few years ago stood at $\$ 5,260$ a year.
The sooner we begin to provide against the future the better.

## Financlal Restits.

The financial results of this recommendation would be as follows :(1) Five Professors.

> Present salaries
> $\$ 3,10000$
> Increase to maximmm
> 10000
> Total nominal
> \$3,200 00
> of which the whole
> 10000
would be absorbed by the retiremert fund, leaving the salary actually received by the professor ats hefore

83,10000 and leaving a balance of 8185 to be paid into the fund at the professor's option.
(2) Three Professors.

Present salaries
$\$ 3,00000$
Increase to maximum
$200 \quad 00$
Total nominal ........ .. .......................... . $\$ 3,20000$
of whicb the whole :...................................... . . 20000
would be absorbed by the fund, leaving the salary actually rectived as before
$\$ 3,00000$
and leaving a balance of $\$ 85$ to be paid into the fund at the jrofessor's option.
(3) One Professor.

Prisent salary
Lmmediate increase . . . . . . . . . . . . . . . . . . . . . . . . ............. . . . . 20000
Total nominal . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 2,70000$
of which the whole ............... . . .................... . . 20000
would be absorbed by the fund, leaving the salary actually recieived as before
leaving $\$ 10$ to he paid into the fund at the protessor's option.
(4) Bursar.

| Present emoluments (sal $\$ 400$ ) | \$2,600 00 |
| :---: | :---: |
| Immediate increase of | 20000 |
| Total nominal | \$2,800 00 |
| of which the whole | 20000 |

would be absorbed by the fund, leaving the emolument actually enjoyed as before
$\$ 2,600 \quad 00$ and leaving $\$ 25$ to be paid into the fund at the bursar's option.
(5) One Professor.

Present saiuag . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 2.00000$
Immediate increase . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 20000
Total nominal . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 2,200 \quad 00$
of which ............................................... . . 13000
would be absorbed by the fund, leaving the salary actually received . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . \$2,070 00 or a cash increase of $\$ 70$, and completing the proportion of the fund.
(6) Six Lecturers and one lemonstrator (seven in all).

Present salaries
$\$ 1,50000$
Immediate inerease
$200 \quad 00$
Total nominal . . . . . . . . . . . . . . . . . . . . . . . . . ... $\$ 1,70000$
of which ............................................... . . 10250
would be absorbed by the fund, leaving the salary aetnally received . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . or a cash increase of $\$ 97.50$, and completing the proportion of the fund.
(7) One Jegistrar.

Present salary . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . \$1,000 00
Increase ........................................................
20000
Total nominal
$\$ 1,20000$
of which
6500
wouid be absorbed by the fund, leaving the salary actually
received
$\$ 1,13500$
or a cash inerease of $\$ 135$, and completing the propurtion
of the fund.

## Casif Outlay.

It will be noticed that the aggregate of the immediate increases to be act ally received in cash is only as follows :

One Professor . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 80
Six Lecturers and one Demonstrator (seven at $\$ 97.50$ ) . . . . . . . 6s. 50
Registrar . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 13500
Total. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\operatorname{ses} 50$
a sum so trifling in eomparison with the general advantage to be obtainfl, that it may well be placed in the first order of urgeney, and arranged at the earliest moment.

This matter being so arranged, the remainder of the increases should be dealt with on the general principles before laid down.

## PART V.

Increase and Organization of the Teaching Staff.

General Remarks and Recommendations-mpolicy as to Increase of Yearly Charge - Remaris as to the Past increases-Detaled Comparative Tables for Ten Years-Monern Languages (Frbneh, German, Italian and Spanisil), Latin, Giemek, Engltsh, Phisics, Mathematics, Philosophy, Ohemistry, Mineralogy anif (ifology, Biology, Political Science, Oriental Languages, Evidence and Recommendations - Libramian : Eyidence and Recommendations - General Result of Recommendations in this Pabt-Clemes, Assistants and Servants.

In dealing with the important and complitated subject of the inerease and organization of the statf it will he convenient to refor in the firsi instance
(a) To the last genmal report of the Commitee on Finance presenterl January 13th, 1882, which thows the $i$
(b) To the flan for the formation of the confederation of Colleges laid before the Sunte on Tanuary 9 h, 1585 , which shows the provisious then thought requisite ;
(c) To the University Aet, R.S O., Cap. 230 , which contains the statutory provi sions applicable to the case :
(d) To the recent report of the Senate Committee on the subject of texching in the pass classes.

The relevant extracts from these documents are as follows:
( 6 ) The last general report of the Committee on Finance dealing with the subject reelred to the present committee was presented to the Senate on January 13th, 1882, and expressed the opinion:-
"That the teaching staff should be much larger than it is at present, and should consist of separate protessors or lecturers on Greek, Latm, French and Italian, German, English, Hebrew, History, Botany, Constitutional Law and Jurisfrudence, Mathematics, Natural Philosophy, Mtntal Sciens, Chemistry, Physiology, Geology and Mineralogy, Zoology, Political Economy, together with a Demonstrator on Physics, a Mathematical Tutor. a Classical Tutor, and such other assistants as the numbers of certain classes might render necessary.

Besides these there shuld be estabtished certain Fellowships, whose holders should have tewhius functions according to the scheme proposed at a subsequent part of this report. Nor can the institution be considered complete without the establishment of an observatory, iu which event there would be added a Professor of Astronomy. Such a scheme of re-organization would also neessitate a large expeuditure on Library, Museums, and Laboratories.

For the purposes of the University there has for some time been the most pressing necessity for an Examination Hall. The numbers of candidates examined at the same time being now so large that they fill to r, verflowing Oon vocation Hall and all the available lecture rooms.

To all this is to be added the crnsideration of the question of providing facilities for the higher education of women."
(b) The plan for the formation of a confederation of Colleges laid before the Senate on January 9th, 1885, contained the tollowing provisions:-
7. (a) University College shall afford to all students, who desire to avail themselves thereof, the requisite facilities for obtaining adequate instruction in the following subjects in the curriculum of the Provincial University, viz:: Latin, Greek, Ancient History, French, German, English, Oriental Languages, and Moral Philosophy, provided that it shall be competent to the governing body of University college to institute additional Chairs which do not exist in the University.
(b) Attendance on instruction provided in any of the confederating colleges, including University Oollege, shall be accorded equal value as a condition of proceeding to any degree with attendance on the work of the University professoriate.
8. There shall be established another teaching Faculty in connection with the Provincial University, to be called the University Professoriate, which shall afford to all students of the Provincial University who desire to avail themselves thereof, the requisite facilities for obtaining adequate instruction in the following subjects, in accordance with the curriculum of such University, namely: Pure Mathematics, Physics, Astronomy, Geology, Mineralogy, Chemistry, Zoology, Botany, Physiology, Ethnology, (including Comparative Philology) History, Logic and Metaphysics, History of Philosophy, Italian and Spanish, Political Economy and Civil Polity, Jurisprulence, Oonstitutional Law, Engineering, and such other sciences, arts, and branches of knowledge as the Senate of the Provincial University may from time to time determine, except such subjects as are prohibited from being taught by Revised Statutes of Ontario, cap. 209, sec. 9.
9. The professors in such University faculty shall be a corporation presided over by a chairman. The same person shall be President of University College and chairman of the Faculty of the University Professoriate. University College and the Faculty of the University Professoriate shall be complementary the one to the other, and afford to all University students the requisite facilities for obtaining adequate instruction in all subjects prescribed in the curriculum of the Provincial University. If in the interests of the general objects of the confederation, it shall be found advantageous to have any subject transferred from University College to the University, or from the University to University College, it shall be competent to the governing bodies of the College and University to arrange for such transfer.
15. There shall be the following staff in University Oollege :

| One | Professor of | f Greek. |
| :---: | :---: | :---: |
| " | " " | Latin. |
| " | " " | " French. |
| " | " " | German |
| " | " 6 | E English. |
| " | " " | Orierital Languages. |
| " | " " | " Moral Philosophy. |
| " | lecturer on | Ancient History. |
| One | Tutor in Gr | reek. |
| " | " " L | Latin. |
| " | " ${ }^{\prime}$ F | French. |
| " | " " Ger | German. |
| " | " O | Oriental Languages. |
| " | " " E | English. |
| One | Fellow in | Greek. |
| " | " " | Latin. |
| " | " " F | French. |
| " | " | German. |
| 4 | " | English. |

Additional assistance in above subjects to be provided, so that no Honor Class shall exceed twelve, or Pass Class thirty.
16. There shall be a University Professoriate adequate to give instruction in each of the following subjects, namely :-Pure Mathematics, Physics, Geology, Astronomy, Mineralogy, Chemistry, Applied Chemistry, Zoology, Botany, Ethnology, History, Italian and Spanish, Logic and Metaphysics, History of Philosophy, Political Economy and Civil Polity, Constitutional Law, Jurisprudence, Engineering. As regards Tutors and Fellows, assistance shall be provided to the University Faculty similar to that mentioned above for the college, as may be required
(c) The University Act, Ohap. 230, R.S.O., provides as follows :-
5. (1) There shall be established in the University of Toronto a tearhing Faculty in the following subjects, viz :-Pure Mathematies, Physies, Astronomy, Geology, Mineralogy, Chemistry (Pure and Applied), Zoology, Botany, Physiology, History, Ethnology and Comparative Philology, History of Philosophy, Logic and Metaphysics, Education, Spanish and Italian, Politicul Science,(ineluding Political Economy, Jurisprudenceand Constitutional Law), Enginecring and such other sciences, arts and branches of knowledge, including a teaching Faculty in Medicine and in Law, as the Senate may from time to time determine, unless otherwise prohibited by this Act.
77. There shall be established in the said University College a teaching Faculty, consisting of a Professor, Leeturer and Fellow, in each of the following suljects, viz:Greek, Latin, French, German, and English, and a Professor and Lecturer in Oriental Languages, and a Professor of Moral Philosophy, and Ancient History shall be taught in connection with the classes of Greek and Latin, and a teaching Faculty may be established in such other subject.s (except Divinity) not mentioned in section 5 of this Act, as by regulation made in that behalf may be determined, sulject to the approval of the Lieutenant-Governor in Council

## (d) Report-

The committee appointed to consider and report upon the details of a plan to secure more effective teaching in connection with the pass subjects of the tirst and second years, beg leave to report as follows:

The committee understand that the desired ohject is to be attained by providing that there shall be a measure of supervision of term work in pass sulyjects, the change thus proposed in dealing with the pass classes being amalogous to the improvements introduced into some of the honor departments where supervision of the work is now the rule. Such a chang, would necessarily involve an addition to the teaching strength in those departments where it may be found requisite to divide large classes. Apart altogether from the question of supervision, the attention of the Senate has been lately directed to the neeessity of forming smaller classes, in order to secure more effective teaching in the departments of Latin, French and German. This proposal to form smaller classes, it appears to your cominittee, should be extended to all deparments where it may be found necessary, and at the same time the experiment should be tried of exercising supervision over the work of the pass classes. With regard to such supervision, the committee are of oplnion that it would be desirable to have it exercisel in all the Pass subjects of the first and second years. Shonld it be necessary, however, on account of the expense involved, to limit the operation of the seheme, it is recommended that it be applied to the departments of languages, mathematies, and philosophy, as soon as adequate provision can be made for carrying it into effect.

On the supposition that such additions to the staff as may be required will be made in these departments, if not in all, the following seheme is proposed, with the tecommendation that it be applied in the first and second years of the course:
liequirements in pass work in first and second years.

1. Students in attendance on lectures are required to obtain at least 33 per cent. on the May examination, anl also 33 per cent, of the aggregate number of marks assigned for the May examination; for work done during the term, and for attendance at lectures, according to the following schedule:

$$
\begin{array}{ll}
\text { May examination . . . . . . . . . . . . . . . . . } & 100 \\
\text { Term work . . . . . . . . . . . . . . } & 20 \\
\text { Atiendance on lectures. . . . . . } & 20 \\
& \\
&
\end{array}
$$

2. Reports on term work in the dopartment of English shall be based on the essay written during the session, of which tive shall be requirerl from each student. In other departments such repores shall be based on those parts of the work which the professor or lecturer may derm most appropriate as tests of proliciency. The maximum nmmber of marks to he assigned for term work shall be 30 ; and no candidate shall be credited with marks belo: 10 .

Reports of attendanee at pass lectures shall be required in all departments; and marks for sucl attendance assigned ns follows:

\[

\]

The Seuate may, for good and sulficient reasons, excuse non-registered students from attendance at lectures ; and shall dispense in such cases with the above requirements with regard to term worl, except in the case of English.

The Senate shall, upon the report of the University or College Council, based upon the recommendation of a professor or lecturer, excuse registered students from Term work and attemdance on liectures in individnal sulgects; bat no exemption shall be aliowed in the case of Eng!ish.

Candidates in pass smbjects shall be arranged in the annual class lists in three grades, $A, B, C$; the minimum for $A$ being 75 per cent., and for $B, 50$ per cent.; all under 50 to be phaced in class C.

In order to give some notion of the amount of additional assistance which will be required before this scheme can be introduced, a number of memoranda from members of the staff are appended. The following analysis of these statements shews what the deminds are in several of the departments.

1. Staff in Greek-Prof. Hutton, a Lecturer and a Fellow, beiag an addition of half the services of a Fellow.
2. Staff in Latin-Mr. Dale, and two instructors, being an addition of a Lecturer and half the services of a Fellow.
3. Staff in French-Mr. Squair, and two instructors, being an addition of a Lecturer and half the services of a Fellow.
4. Staff in German-Same as in French.
5. Staff in Mathematics-Prof. Baker, two Lecturers and a Fellow, being an addition of two Lecturers.

It also appears from the annexed memoranda that nuder this scheme the number of pass lectures in the department of Greek in the first und second years would be ten instead of three as at present.

In the department of latin, the total number of lectures which would be delivered by Mr. Dale and his two nssistaits would be about thirty.

In each of the departments of French and German, the total number of lectnres per week would be about thirty-four, of which the Fellow would take mbout sis, the remainder being taken by the lecturer and his first assistant.

All of which is respectfully submitted,
(Sgd.) J. Louton,
Febriary 13, 1891.

Theso tocuments show :
(a) That nearly ten years ago the need for expansion in the teaching stall was recognized;
(b) That six years ago, on the negotiations for confederation, it was thonght neeessary to lix and secure the stafl for University College, which staff was detinitely indicated wit', the important provision that alditional nssistance should lee arranged sothat no honor class should exceed 12 , or pass class 30 ; and that general provision was made for an adequate University Professoriate and tutorial staff ; and
(c) That the University Act gave the force of law to the final form adopted ; and enacted the establishment of a teaching staff in University College, consisting of a professor, lecturer, and Fellow in each of the subjects of Greek, Latin, Freuch, German and hinglish; a professor and lecturer in Oriental Languages; and a protessor of Moral Philosophy ; and of a teaching Faculty (not so particularly fletined) in the specified subjects to be taught in the University of Toronto.

The definite and absolute provision made as to the staff of University College is obviously to be explained by the circumstances of confederation ; and it is dillicult to justify, save under the plea of absolute necessity, the dehay which has taken place, and which must yet take place, in the fulfilment of the statute.
(d) The report of the Senate committee shows the necessity of further teaching powers.

The increase in the number of students, and the changes in, and additions to, the curriculum have intensified the need for action.

## General Recommendaition.

In the interests of the institution the statute should be complied with as soon as practicable ; and meanwhile temporary provision should be made at the earliest possible moment to fill the gaps.

In adopting this course regard should be had, when teciding on the character and order of action, to the comparative as well as the absolnte urgency of each case; for it is important to take account of the degree in which, relatively to each other, the different branches have been recently advanced and made efficient; so that the progress towards. completion may be general on all lines.
cumber of ld be ten
deliveren
f lectures. t six, the
arlon.
ght necesnitely inranged sovision was
ted ; and ting of $n$ ach, Gerotessor of e specified

Oollege is iflicult to place, and

A comprative table of the salaries and expenditures on the various bramehes tor ten years past will he set out, ani it is retirred to as giving important information on this subject.

It shews, for example, that Loyic, Metaphysics and Ethics, now comprising Logic and Metuphysics, History of philosophy and Eithies, have been douhled in professorial strength, and will in 1892 stand at 86,500 as against 83,600 in 1828 ; that rolitica! veience has been created, having thre professors and a fellow, fud st mils at \$i,i00 as aghinst nothing in 1888 ; that Greek has been alanost dubled, having a profensor, a lecturer and half a fellow as against half a professor, half a tut, a and habi a fellow in 1887, and stands at 84,850 as agninst 82,300 ; and that linglish has hen hargely udvanced, having a professor and a lecturer as against half a professor in 1857 , and stands at 84,500 as against $\$ 1,400$.

On the other hand, it shews that latin has been racher wrakened, having a lecturer and ha!f a fullow as against half a professor, hatt a lecturer and half a follow in 1887, and stands at 81,750 as against 82,300 ; that French ha- heen left almost statomary, having a lecturer and a fellow as against a lecturer and half a follow in 1888, and stands at $\$ 1,875$ as against $\$ 1,750$. That German has heen lefit ahost stationary, having a lecturer (also libatian), and a fellow as against a lecturer similarly circomstaneed and haif a fellow in 1888 , and stands at 81,375 as against 81,250 ; and that Italian and Spanish has been leit stationary, having a lecturer us in 1888 , mad stands at \& 8,500 in both yems.

## Pobicy as to Increane of Yeamly Charge.

Before proceding to deal with specific ceses it is well to state brietly the tinancial facts, and to explain the general principles of astion which are suggested as applicable.

As alremly explaned, there is no surphs revenue, and our income will be fully ongaged, until it is enlarged ly the sale or muproductive property, or by incrensed rents.,

The exact priol of the creation of a substintial surplus is utecrtain, depending as it does on the land market.

But it is reasonably certain that within a brief space there will be a substantial surplus over present expenditure, which surplus will increase tiil it ultimately reaches at least $\$ 50,000$ a year.

We camot at this moment inerease une expenditure without drawing on the capital of the endowment, a step which cnly considerations of the gravest and most pressing nature coull justify.

Any nmediate expenditure propozed must be julged and limited by this rule.
It becomes important then to ascertain,
(1) Whother there are any, and what, expenditures which should now be proposed.
(2) In what way and on what principle the surplus revenues as they become available should be applied; and thus at once to avoid the errors inevitable when isolated expenditures are sanctioned on detached views, and to let those interested know what to expect.

## Increash of Staff.

## Partioular Buanches.

Referring now to particular branches, it is convenient to preface their consideration by the comparative table already reforred to which is as follows:-






838833353838383 3

$88: 35838888883888$
8
 $\qquad$
UNIVERSITY OF TORONTO AND UNIVERSITY COLLEGE.

1. Bursar's office. . . . . . . . . . . . . . . . . . . . . . . . . .

[^1]3. General as between University and Uni-

 versity College v
Scmmari of Salaries, Pbxsions, Efc.

UNIVERSITY OF TORONTC AND UNIVERSITY COLLEGE.-Continued.
Stmmary of Salaries, Pevsions, Eitc.

| Department. | 1891. | 1890. | 1889. | 1988: | 1887. | 1886. | 188\%. | 1884. | 1883. | 1882. | 1881. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Registrar, also paid as Kegistrar of University Collere and Secretary of Uni- |  |  |  |  | 00 | 400 | 400 | 40000 | 40000 | 40000 | 40000 |
| versity College Council.... | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 | 75000 |
| Registrar's Assistant at \$2000........ | 20000 | 20000 | 21666 | 20000 | 20000 | 25000 | 20000 | 20000 | 20000 | 10000 |  |
| Bedel and attendant on Senate, slso paid as Bedel University C'ilege.... | 19000 | 19000 | 19000 | 19000 | 190 c0 | 19000 | 19000 | 19000 | 19000 | 10000 |  |
| Architect.............................. | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| Total | 1,640 00 | 1,64) 00 | 1,556 66 | 1,640 00 | 1,610 00 | 1,690 00 | 1,640 00 | 1,640 00 | 1,640 00 | i,450 00 | 1,350 00 |
| 6. University of Toronto, TeachingStaff, etc. Agriculture: <br> Professor of Agriculture............... |  |  |  |  |  |  | 40000 | 60f, 00 | 60000 | 68000 | 60000 |
| Modern History : <br> Professor of Modern History, formerly Profeszor of Histri-y and English Literature ............................. |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | $\begin{aligned} & \text { lalf } \\ & \text { history } \end{aligned}$ |  |  |  |  |  |  |
|  | 2,800 00 | 2,800 00 | 2,800 00 | 2,800 00 | $1,40000$ | 1,400 00 | 1,400 00 | 1,200 00 | 1,400 00 | 1,400 00 | 1,400 00 |
| Political Science :Professor in Political Science........Fellow in Political Science at 500. |  |  |  |  |  |  |  |  |  |  |  |
|  | 3,000 00 | 2,500 00 | 2,083 33 |  |  |  |  |  |  |  |  |
| Professor in Constitutional and International Law (Mills). | 50000 |  |  |  |  |  |  |  | . .... |  |  |
|  | 1,000 00 | 1,000 0 | 50000 |  |  |  |  |  |  |  |  |
| Professor of Roman Law, etc., etc., (Prouàfoot). | 1,000 00 |  |  |  |  |  |  |  |  |  |  |
| Lecturer on Constitutional History <br> (D. R. Keys) |  |  |  |  |  |  | 65000 | 60833 |  |  |  |
| Total. | 5,500 00 | 3,500 00 | 2,583 33 |  |  |  | 65000 | 60833 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |


Stmmary of Salaries, Pexsions Etc.

| Department. | 1891. | 1890. | 1889. | 1888. | 1887. | 1886. | 1885. | 1884. | 1883. | 188. | 1881. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology- | \$ c. | 8 c. | \$ c. | \$ c. | \$ c. | § c. | \$ c. | \$ c. | \$ c. | \& c. | \& c . |
| Professor of Biology, formerly Natural History and Botany. | 3,100 00 | 3,100 00 |  | 3,100 00 |  |  |  |  |  |  |  |
| Lecturer in Physiology . .............. | 1,500 00 | 1,50000 | 1,500 00 | 1,50000 | 3,100 00 | 3,100 00, | 3,100 . | 3,100 00 | 3,10000 | 3,100 00 | 3,025 00 |
| Fellow in Biology ............... | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 50000 | 7500 | 100 cc |
| Sub-Curator of Museum ..... | 52400 | 52400 | 52400 | 52400 | 52400 | 52400 | 58400 | 52400 | 52400 | 49166 | 48000 |
| l3uilding ........................... | 48000 | 33334 |  |  |  |  |  |  |  |  |  |
| Total | 6,104 00 | 5,957 34 | 5,624 00 | 5,624 00 | 4,124 00 | 4,124 00 | 4,124 00 | 4,124 00 | 4,124 00 | 3,666 66 | 3,605 00 |
| Italian and Spanish - |  |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{T}_{\text {cinturer in Italian and Spanish }}$ | 1,500 00 | 1,500 00 | 1,500 00 | 1,500 00 | 1,300 00 | 1,300 00 | 1,300 00 | 77500 | 50000 | 50000 | 50000 |
| Logic, Metaphysics and Ethics- |  |  |  |  |  |  |  |  |  |  |  |
| (a) Lngic and Metaphysics- |  |  |  |  |  |  |  |  |  |  |  |
| Professor of Logic and Metaphysics, Jno. Beldwin, salary from Oct., 1889, at $\$ 3,000$ per annum | 3,000 00 | 2,250 00 |  |  |  |  |  |  |  |  |  |
| Professor of Metaphysics and Ethics, G. <br> P. Young, half |  | $\{$ | F alf E hics, 1.03333 | \} 1,550 00 | 1,550 00 | 1,500 00 | 1,500 00 | 1,500 00 | 1,500 00 | 1,500 00 | 1,512 50 |
| Gratuity to Professor Young's representatives on his death, 6 months salary, half |  |  | $\begin{gathered} \text { Has } \\ \text { Hthics, } \\ 77500 \end{gathered}$ |  |  |  |  |  |  |  |  |
| Temporary lectures after his death half Fellow in Logic and Metaphysics, half. | 25000 | 25000 | 175 250 200 | 25000 | 25000 | 25000 | 25000 | 25000 |  |  |  |
| Total for Logic and Metaphy ics. | 3,250 00 | 2,500 00 | 2,233 33 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,800 00 | 1,550 00 | 1,550 00 | 1,512 50 |


Sumpary of Salaries, Persions, Etc.

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Department. \& 1891. \& 1890. \& 1889. \& 1888. \& 1887. \& 1886. \& 1885. \& 1884. \& 1883. \& 1882. \& 1881. <br>
\hline \& \$ c. \& \$ c. \& \$ $\quad$ c. \& \$ $\quad$ c. \& \& c. \& \$ $\quad$ c. \& \$ c. \& 8 c. \& \& c. \& \$ $\quad$ c. \& S c. <br>
\hline Oriental Litcrature- \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Professor in Oriental Literature-Dr. McCurdy formerly lecturer. . \& 2,000 00 \& 2,000 00 \& 1,833 34 \& 1,500 00 \& 1,375 00 \& 50000 \& \& \& \& \& <br>
\hline Lecturer in Oriental Literature-John Hirschfelder. \& \& \& 75000 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 <br>
\hline Total. ......... ................ \& 2,000 00 \& 2,000 00 \& 2,583 34 \& 3,000 00 \& 2,875 00 \& 2,000 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 \& 1,500 00 <br>
\hline English- \& \multirow[t]{4}{*}{} \& \multirow[t]{3}{*}{2,500

$\cdots$} \& \multirow[t]{4}{*}{$\ldots \ldots \ldots$
$\ldots \ldots \ldots$
1,500

00 $|$} \& \multirow[t]{4}{*}{} \& \multirow[t]{4}{*}{\[
\left|$$
\begin{array}{c}
\cdots \text { Half } \\
\text { English, } \\
\text { Liter. } \\
1,400 \\
\cdots \cdots \cdots
\end{array}
$$\right|

\]} \& \multirow[t]{4}{*}{\[

\} 1,40000
\]} \& \& \& \& \& <br>

\hline | Professor in English (W. J. Alexander) |
| :--- |
| Salary from September, ' 89 , at $\$ 3,000$ | \& \& \& \& \& \& \& \& \& \& \& <br>

\hline Professor of History and English Literature, half English. \& \& \& \& \& \& \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 <br>
\hline Secturer in English................... \& \& 1,500 00 \& \& \& \& \& \& \& \& \& <br>
\hline Total for English. \& 4,50000 \& 4,000 00 \& 1,500 00 \& 1,500 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 \& 1,400 00 <br>

\hline French- \& \multirow[t]{4}{*}{$$
\begin{array}{r}
1,500 \\
250 \\
250 \\
125
\end{array} 00
$$} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,500 \\
250 \\
250
\end{array}
$$

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,500 \\
00 \\
250
\end{array}
$$

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,500 \\
00 \\
250
\end{array}
$$

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,000 \\
00 \\
250
\end{array}
$$

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,000 \\
200 \\
250
\end{array}
$$ 00

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{array}{r}
1,000 \\
00 \\
250
\end{array}
$$ 00

\]} \& \multirow[t]{4}{*}{\[

$$
\begin{aligned}
& 700 \\
& 00 \\
& 250
\end{aligned}
$$ 00
\]} \& \multirow[t]{4}{*}{1,150 00} \& \multirow[t]{4}{*}{1,000 00} \& \multirow[t]{4}{*}{1,000 00} <br>

\hline Lecturer in French. Change of Lecturer in '84, part of year's salary not paid. \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Fellow in Modern Languages, half French \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Second Fellow in Modern Languages at 8500, half French
$\qquad$ \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Total for French................ \& 1,875 00 \& 1,750 00 \& 1,750 00 \& 1,750 00 \& 1,250 00 \& 1,250 00 \& 1,250 00 \& 95000 \& 1,150 00 \& 1,000 00 \& 1,000 00 <br>
\hline \& \& \& \& \& \& \& \& \& \& \& <br>
\hline
\end{tabular}

| German- |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lecturer in German, also paid as Librarian | $1,00000$ |  |  | 1,000 00 | 1,000 00 | $1,00000$ | 1,000 00 | 1,000 00 | 93748 | 75000 | 75000 |
| Fellow in Modern Languages, half German | $25000$ | 25000 | 25000 | 25000 | 25000 | $25000$ | 25000 | 25000 |  |  |  |
| Second Fellow in Modern Languages, half German. |  |  |  |  |  |  |  |  |  |  |  |
| Total for German. | 1,375 00 | 1,250 00 | 1,250 00 | 1,250 00 | 1,250 00 | 1,25000 | 1,2\%0 00 | 1,250 00 | 93748 | 75000 | 75000 |
| 8. University College, General- |  |  |  |  |  |  |  |  |  |  |  |
| Registrar University College and Secretary to College Council ; also paid as Registrar to University. Bedel, also paid as Bedel to Univer- | $\begin{aligned} & 25000 \\ & 51000 \end{aligned}$ | $\left.\begin{aligned} & 250 \\ & 510 \\ & 510 \end{aligned} \right\rvert\,$ | $\begin{aligned} & 250 \\ & 510 \\ & 500 \end{aligned}$ | $\begin{aligned} & 25000 \\ & 510 \end{aligned}$ | $\begin{aligned} & 500 \\ & 500 \\ & 510 \end{aligned}$ | $\begin{aligned} & 500 \\ & 510 \\ & 500 \end{aligned}$ | $50000$ | $\begin{array}{ll} 500 & 00 \\ 510 & 00 \end{array}$ | $\begin{aligned} & 500 \\ & 500 \\ & 510 \end{aligned} 00$ | 500 510 500 | $\begin{aligned} & 47500 \\ & 51000 \end{aligned}$ |
| Total. | 76000 | 76000 | 76000 | 76000 | 1,010 00 | 1,010 00 | 1,010 00 | 1,010 00, | 1,01000 | 1,010 00 | 98500 |

## A. Modern Languages.

The evidence sulmitted on Modern Languages comprising French, German, Spınish, and Italian, is as follows:-

1. June 6th, 1890.

Memorial of Messrs, vanderSmissen, Squair, and Fraser, lecturers in Modern Langunges, representing that they are mable to overtake, without further assistance, the amonnt of work entailed by the large and rapidly increasing number of students in their departments, and by the increased requirements of the curriculum; that the lecturers find it impossible to increase the number of lectures given by themselves, and that the assistnnce rendered by the Fellow in Molern Languages, which is four hours weekly in each of the sulyjects of French and (irman, is all that can fairly be demanded of him ; that no assistance has been given in Italian and Spanish, in which help is ugently requirel ; and requesting that as a temporary measure of relief two fellows he appointed in modern languages for the then approaching academic year.
2. Gith August, 1800.

The memorial of the same gentlemen to the same effect, repeating their request for an opportmity oi laying detailed information before the Senate.

## 3. $16 \mathrm{th}_{\mathrm{l}}$ October, 1890.

The memorial of the same gentlemen and of Mr. Dale, lecturer in Latin, stating that these departments consitute a very large and important part of the arts course of the University, in point both of numbers of students and of difficulty of courses of study; and stating the importance of the representation of the departments in the Councils of the University of Toronto, and of University College, in which they are not represented, and praying the Senate to devise means for remedying the evil.
3. (a)-A memorandum of facts and considerations in support of the said memorial as follows:-

## Memorial.

To the Chanceilor, Vice-Chancellor and Members of the Senate of the University of Toronto:
The undersigned lecturers in University College and the University of Toronto, in the departments respectively of Latin, French, German, Italian and Spanish, beg respectfully to bring to the attention of your honourable body the following statements :-

1. That the departments named above constitute a very large and important part of the arts conrse of the University, whether account he taken of the mumbers of students in these departments or of the dilliculty of the courses prescribed in them.
2. That the undersigned have sole charge of these departments, and are as entirely responsible for the teaching done in them and for their proper and efficient administration as the professors in charge of other departments.
3. That in the Comails of University College and the University of Toronto questions of Universityadministration and policy, directly and indirectly affecting the interests of lecturers and students in these departments, are discussed and disposed of, and that in these Comucils the aforesaid departments are without voice or representation.

In view of the above, the senate is respectfully requested to take the whole matter into its consideration, with the obect of devising such measures as will without delay remedy a condition of things prejudicial, not only to the aforesaid departments, but also to the interests of the University in general.
(Signed) W. Dale.
J. Squair.
W. H. VanderSmissen.
W. H. Fraser.

## Memorandum of fucts and considerations in support of the above.

1. "The departments named constitute a very large and important purt of the Arts course, etc."
(a) The number of students in the various departments of the arts courso is as follows:-

On the Hasis of Pass Students.


On the Basis of Honor Students.


Note.-The ntatistics given are taken from the registrar's records for the session 1889-90, and are approximately correct for the current year, except in Italian and Spanish, in which subjects (owing te a change in the curriculum) the numbers are at present respectively 90 and 61.
(b) As regards " the difticulty of the courses of study prescribed in them."

This is shown by reference to the curriculum. It is assumed in this connection that honor departments are intended by the Senate to be equivalent to one another.
(c) Morcover, the departments named are finclamental as rega:ds the arts course and as regards the training of teachers for the high schools. All students of the arts course are requived to take Latin, and in most honor departments a knowledge of French and German is demanded. Latin and the modern languiges form a very large part of the work of the secondary schools.
2. "The uncersigned have sole charge of these departments, etc."

This is shown by reference to the University and College calendars. The under. signed prescribe the subjects on which lectures are given, deliver courses of lectures, superintend the work of the Fellows attached to the respective departments, and are practically responsible in every respect as regards the standard of elliciency in their departments and the discipline of students, subject only, like professors, to the general supervision of the President.
3. "The undersigned aro without voice or representation on the Councils of University College and the University of Toronto."

It might perhaps be asserted that Latin is represented under the head of Classics by the professor of Grerk. The two subjects are, however, entirely distinct. The professor of Greek has ro cortrol or supervision in aliy way over the work in Latin. He is not supposed to know the ciemmstances of the Latin department, and does not assume to represent it. The two dopartments are as itistinct as, e.g., those of Mathematies and Physies, each of which is reprosented by its own professor.

Or it might be asserted that French, German, Italian and Spanish are represented by the professor of English (one of the sulyjects of the Modern Language group). But the professor of English, similarly, does not assume any knowletge of, or control over, or responsibility for the work in French, German, Italian and Spanish. These departments are as distinct as, 0,1, , Lhose of Biology, Chemistry and Mineralogy and Geology of the Natural science group, each of which is represented by its own professor.

It might be assertel further that, as a mattor of fact, the lecturers named are consulted as to the administration of their departments. This, in any case, is a matter of courtesy and not of right, and cannot be construed is representation.
4. The Senate is requested to "devise measures to remedy a condition of things prejudicial to the aforesaid departments, and also to the interests of the University in general."

The memorialists assume that representation of the various departments on the councils is useful and desirable, as regards the just and efficient alministration of the various departments and of the University in general. Hence, the want of representation is considered to be prejudicial. Specific instances are not necessary to establish this position. If desired, however, instances can be given in which the memorialists eonsider that the want of representation has proved to be prejudicial to the interests of their departonents and of the University.

In general, owing to want of representation and the status implied by representation under existing conditions, these departments occupy, in comparison with other departments, an inferior and anomalous position.

Moreover, the feelin; of injustice inc eparably associated with existing ecnditions is ealculated to disturb that hurmony which is necessary to che satisfactory alministration of the business of the University. In addition to what is implied in the varions statements of the memorial, the reasonableness of the claim for representation is supported by the following considerations :-
(a) Representation of the various branches of learring is evidently a recognized prineiple in the organization of the Councils, even when representation is not further warianted by the numerical imporiance of departments is respeet of students.
Thus, in the Council of Cniversity College, Greek, Oriental languages and Erglish are ropresented by their respective professoms, while Ethics, during the temporary absence of the professor of ethics, is represented by the acting professor in that subject. It is claimed by the memorialists that no reason can be urged for the representation of Greek on this Council, which does not apply with equal force to the representation of Latin, similarly it is claimed that no reason ean be urged for the representation of Oriental languages, English and Ethics, which does not apply with, at least, equal foree to the representation of Fren lu and German. Besides, it appears from the University Act ( 50 Viet., cap. $4 u$, see. 77) that representation of Latin; French and German wiss contemplated, fc" the sict expressly preseribes ( 50 Vict, cap. 43 , sec. 77 ) that each of the branches named shall be taight by a professor, lecturer and fellow.
In the University Council the following sul jects of the arts course are represented : History and Ethmology, Physics, Tathematies, Minemagy and Geology, Biolugy, Ehemistry, Political science, Metaphysies (same professor also representing Ethies temporarily on the Coilege Council), and Cou parative philology (the professor in the last named sulject also representing Greek on the College Counci!).

Classics by he professor He is not assume to maties and represented ). But tho rol over, or lepartments logy of the
ed are con. a matter of
on of things niversity in
nts on the tion of the representa. tablish this sts consider sts of their

## resentation

 her depart-
## nditions is

 inistration rious statepported by
## recognized

 ation is not respect ofnd Ergglish he temporrofessor in n be urged apply with no reason and Ethies, of Fren 1 t., cap. 4u, templated, ach of the resented : Geology, also rejurephilology he College

It is urged that the department of Italian and Spanish, which constitutes, at least, one-half of the University work in the Romince languages, has equal clains to representation with Ohemistry, Mineralogy and Geology, History and Metaphysics, etc., which similarly constitute on the curriculum a part of the preseribed work in Natural Science and in the other departments to which they respectively belong. On the other hand, the subject of Comparative philology is accorded reprosentation, although it does not is yet form a recognizad portion of the arts curriculum, and although it is defined in $t_{1}$. University Act (50 Vict., eap. 43 , sec. 5) as not forming a department by iuself, but only in connmetion with Ethnology.
(b) So fully does the principle of representation appear to be carried out, that Itain, French, German, Italian and Spanish are the only departments unrepresented, while certain courses in law, under the charge of oce sional professors, have full representation on the University Council.
Hence, the position of the memorialists is that they temand for their departments that representation, which, as it appears, has been granted to all other departments. They urge that their departments be organized in accordance with the requirements of the University let. Nor can any objection rasonably be alleged on account of insufheient funds, seeing that in other departments representation has been granted irrespective of the question of salary in any given case.
4. The report of the committee of the Senate appointel to deal with (among other matters) the above, recommending, anong otner things, as urgent, the appointment of a second Fellow in Modern Linguages; and appending statistics showing, in French (students), honors, 99 ; pass, 165 , (including first year, 98 ;) total 964 . Lectures 18 , including (first year) 2 elemtntary pass, 1 advinced pass, 1 honor. In German (students), honor, 99 ; pass, 166 (including first year, 93 ;) total 265 . In Italian and Bpanish (students), Italian, 90 ; Spanish, 61 ; total, 151 ; lectures, 14 ; averaging two per week to each class of students.
5. 24th October, 1890.-The report of the Board of arts studies on the memorials of the lecturers in Modern Languages and the professor of Physies to the effect that theappointment of an additiona: Fellow in Modern Languages is urgently required.
6. January 1st, 1891.-Letter from Mr. Squair to the Registrar communicating the resolution of the Modern Language Association, No. 1, as follows :-
(1) "In view of the importance of the modern languages, both as to their intrinsic value and as to their bearing upon other subjects of study as prescribed in the curriculum of the provincial University, and in view also of the increasing attention given to these subjects in the high schools of Ontario, this Association expresses the opinion that those who may have charge of the different branches of the department of Modern Languages in the University of Toronto and in University College should be accorded a status equal to that held by the professors of the other departments.
(2) "That, in view of the importance of the study of English, I sench and German, this Association lo request the Senate of the University of Toronto to make such changes in the regulations governing the Prince of Wales' Scholarship of the Junior matriculation as will re ognize the equality of Classics, Mathematics and Modern Languages in the a warding of the said Scholarship."

## 7. January 10 th, 1891.

The memorial of Messrs. VanderSmissen, Squair and Dale, lecturers, to the Senate as follows:-
To the Chencellor, Fic-Chancellor and Members of the Senate of the University of Toronto:-
A memorial from the lecturers in French, German, Italian, and Spanish was pregented to the Senate in the month of June last, sutting forth the fact that the lecturers were mable to overtake, without further assistance, the amount of work entailed by the large and rapidy incrasing numbers of stadents in those departments, and by the increasel requirements of the curriculum; and suggesting that as in tempdrary measure of relief two Fellows be appointed insteal of one.

The memorial referred to was drawn up on the umberstanding that the emb arrassed condition of the University funds reudered anything more than a temporary measure of reli.f at the time impracticable.

The lecturers subsequently appeared in support of the memorial hefore a committee of the senate appointed to ilead with the matter. On con.aring with the committee, the memorialists, were reminuled that in view of the condition of the funds, any discussion of the altimate requirements of the departments in question as well as of all other lepartments wonld te premature.

Since the conference referred to, however, a proposition involving the expenditure of a considerable sum for the erection and mantenance of chemical and mineralogical laboratories has been considered by the Simate and referred to a committee.

In view of the contemplated expenditure involved in carrying out this proposition, the undersignel lecturers in Latin, French and German consider it thrir duty to hay before the Semate the statistical statement sulyoined, prepared from the University class lists, showing the numbers of students in the departments named, as well as in other departments, for the years 1880 to 1890 inclusive:-
l'ass Students.

|  | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | Increase or Decrease. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Greek... | 132 | 140 | 112 | 105 | 124 | 126 | 88 | 120 | 119 | 116 | 80 | 46 dee. |
| Latin | 161 | 167 | 141 | 146 | 166 | 177 | 15\% | 189 | 183 | 258 | 293 | 132 inc. |
| Mathematics ... | 146 | 145 | 156 | 144 | 1.33 | 150 | 173 | 118 | 126 | 152 | 152 |  |
| Physicn. |  |  |  | 5 | 14 | 20 | 34 | 109 | 135 | 106 | 129 | ¢ 1 sinc. |
| English | 93 | 93 | 90 | 93 | 94 | 91 | 122 | 127 | 150 | 152 | 171 | 78 inc. |
| French. | 57 | 66 | 41 | 51 | 50 | 54 | 62 | 98 | 106 | 135 | 170 | 113 inc. |
| Germian | 13 | 8 | . 9 | 16 | 10 | 10 | 18 | 05 | 61 | 137 | 175 | 162 inc. |
| Chemistry. | 58 | 26 | 42 | 30 | 31 | 26 | 48 | 48 | 47 | 54 | 57 | 1 dec. |
| Biology | 5 | 6 | 10 | 5 | 5 | 2 | 23 | 32 | 32 | 34 | 25 | 20 inc. |
| Mineralogy and Gevlogy...... | 7 | 18 | 27 | 32 | a | 42 | 62 | 93 | 79 | 75 | 86 | 79 inc. |
| Philosophy..... | 27 | 24 | 24 | 22 | 25 | 24 | 29 | 39 | 27 | 37 | 24 | 3 dec. |
| Logic .......... | 64 | 38 | 42 | 46 | 60 | 44 | 58 | 55 | 59 | 92 | 120 | 56 inc. |
| Orientals. | 11 | 13 | 14 | 17 | 18 | 28 | 31 | 29 | 39 | 30 | 28 | 17 inc. |
| History ........ | 64 | 52 | 46 | 33 | 42 | 43 | 49 | 54 | 57 | 165 | 191 | 187 inc. |
| Civil Polity .... | 48 | 43 | 60 | 34 | 53 | 55 | 33 | 38 | 47 | 51 | 53 | 5 inc. |

tho Senate

## / Toronto:-

 sh was prehe loeturers. ailed by the and by the measure ofeml arrassed measure of t committeo comuittee, y diseussion ther depart.
expenditure incralogienl
proposition, duty to lay ersity elass as in other

Increase or Decrease.

46 dec.
132 inc.
135 inc.
78 inc.
113 ine.
162 inc.
1 dec.
20 inc.
79 ine.
3 dec.
56 inc.
17 inc.
137 ine.
5 inc.

Honor Studente.


The attention of the Senate is directed to the following compurisons based on the above statistics: -

The number of stulents in Latin, in which there is one lecturer who is assisted by half the services of the Classical Fellow, is 3.77 ( 64 honors plus 293 pass), as compared with a total in Greek of 149 ( 63 honors plus 86 pass), in which department there are one professor and one lecturer assisted by half the services of the Olassieal Fellow. As compared with other departments, the number in honor Latin (6t) is considerably larger than that in honor Mathematies and Physics (48), in which there are two professors, two lecturers and two Fellows, somewhat larger than that in honor Chemistry and Bioloy combined (59), in which there are two professors, one lecturer and two Fellows; while the number in Pass Latin (293) is considerably larger than in any other department of the University.

In honor French there are ninety-one students, and in honor German ninety-four, numbers far surpassing those in any other honor department, exeept that of English (116). The numbers in honor Fronch and German, in each of which there is but one decturer assisted by half the services of a Fellow, are one and a half times greater than those n honor Greek, nearly twiee as large as those in honor Mathematics and Physics, noarly liree times as large as those in honor Metaphysies, in which there will be, after October
next, two professors and a Fellow, and larger than tho numbers in honor Chemistry, Biology and Mineralogy combined, in which there are three professors, one lecturer, three Fellows, and other assistants.

Ihe number of students in pass leronch is 170 , and in pass German 175, numbers much larger than those in my other fass subject exerpt pass Latin, pass History and pass English. Of these, moreover, a considerable number are elementary students, for whom special tenching provision is indispensuble.

It is apparent from the nbove that the provision mole for the teaching of Latin, Fre:ch and German, whether considered absolutely or in comparison with tho aquipment of other dejartments, is at present inadequate. Moreover, in view of prospective nerds, the attention of the Semate is dirreted to the following comparative statement of the increase or decrense which bas respectively taken place in various departments in the period covered by the statisties.

The increase in honor Latin has leen from 44 in 1880, to 6.4 in 1890 ; in pass Latin from 161 to 293 ; as compared with a lecrease in pass Greek from 132 to 86 . In honor lirench, the increase has been from 35 to 91 ; in honor (iorman, from 27 to 94 ; in pass French, the increase has been from 57 to 170 , and in pass German, from 13 to 175. In othor honor departments the increase has been much smabler, as for exmple, in honor Mathematies and Physies, an increase trom 37 to 18 ; in honor Chemistry, from 21 to 31 ; in liology, from 21 to 38 , und so on ; while in honor Philosophy there has been a decrease from 59 to 38 .

The attention of the Senate is also direeted to the fact that certain changes in the curriculum will ndd considerably to the mombers in pass Fronch und Gorman, to such an extent that within two years there will probably be 950 students in ench of these pass sulijects.

The large amount of work in connection with so many students of such a variety of attaimment has already made it necossary to increase the number of lectures per week in French and Gierman to about twenty in each, a number exceeding, it is believed, those given to any otherilepartment.

The undersigned desire by the above statements and comparisons to direet the attention of the Senate to the present mel prospective needs of the departments under their care. They desice also to protest reteetfully against the expendituro of large sums of money in the equipment of other uepartments, without full consideration of the requirements of the departments of Latin, French and (ierman, which, owing in. their mumerical strengih and fundamental importance, both in the University and in the cchool bystem of the Province, have in the opinion of the undersigned a primary claim upon the rosources of the University.
(Sgd.) W. H. Vander Smissen, Lecturer in German.

> University of Toronto, January 10th, 1891 .

## J. Squair, <br> Lecturer in French.

William Dale, M.A.,
Lecturer in Latin.
8. The report of the committee as amended by the Senate, expressing the opinion. that English, French, German, Italian, and Soanish should be represented in the Councils, and that steps should be taken by amendatory legislation for the appointment of professors or otherwise to that end.
or Chemistry, lecturer, three

175, numbers s History and students, for
ring of Latin, ith the erfuipview of pro. y comparative fee in various
in prass Iatin 86. In honor to 94 ; in pass (11) 13 to 175. $r$ example, in emistry, from phy there has
hanges in the riman, to such of theso pass
ach a variety lectures per it is believed,
to direct the tments under ture of large sideration of ich, owing ts
rsity and in. d a prinary

German.
French.

L Latin.
the opinion. in the Counointment of

9th May, 1890.
The report of tho Board of eximiners to the Senate, as follows:-
The Boarll of examiners desire respectfully to eall the attention of the $\mathbf{S e n a t a}$ of the Universicy to the very unsatisfactory mature of tho work done by pass cindidates in arts at the examinations just concluded. The defective character of the work is especially marked in the first and second years, and is partially shown by the following talmiar statement of some of the results:-

| Suljeets of Examination. | Toital number of | Number who failed. | Average per cent, of marks obtainet by thowe who failed. |
| :---: | :---: | :---: | :---: |
| 1st year Mathematics | 165 | 33 | 18 |
| 2md " | 9 | 41 | 23 |
| 1st " Classics | 173 | 63 | 21.5 |
| 2nd " " | 112 | 36 | 22 |
| 14 t " French | 79 | 35 | 17 |
| 2 ul " French | 78 | 41 | 17.6 |
| 1st " Gierman. | 71 | 20 | 21.8 |
| 1st " Eughish | 142 | 17 | 26 |
| 2nd " Philosophy | 134 | 42 | 21 |

The Board attributes the unsatisfuctory condition of things here exhibited to the growing negleet of pass suhjects by candidates, aud to a lack of suflicient supervision and direction arising from the inability of the teaching staft to eopo with the rapidly increasing mumbers of students in classes of the lower years. It is therefore respectfully suggested that the Senates should take this matter into consideration, and should devise some means of improving the pass course, especially in the tirst and second years.

## B. French.

Mr. Squair, by paper of 97 th Junuary, 1891, gives the following tables and nemornuda:

Number of Students in attendance at present.

| Taking Honor Work. |
| :--- |

Note.-All honor students takt the pass work of their respective years.

Number of Lectures per week given at present.

|  | Pass Work. | Honor Work. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Readirg texts, Prose exercises, Dictation, etc. | Conversation and Composition. | $\begin{array}{\|c} \text { Literature } \\ \text { (Reading texts, } \\ \text { etc.) } \end{array}$ | Philology (Reading old Fronch texts, History of langrage, etc.) | 盛 |
| 4th year.............. | 1 (24 in class).......... | 16 Students. <br> 2 (8 in class). | 1 (16 in class).. | 1 (16 in class). | 5 |
| 3rd year.............. | 1 (33 in class).......... | 20 Stridents. 2 ( 10 in class) | 1 (20 in Enass).. | 1 (20 in class).. | 5 |
| 2nd year. | $\underset{\underset{c}{105 \text { Students. }}}{\stackrel{(63}{\text { pass nen in class). }}} \underset{1}{(42 \text { honor men in clars) }}$ | \}................ | 1 ( 42 in clrss).. |  | 4 |
| 1st yeaz $\square$ | $1: 4$ Students. <br> 3 (60 begiuners in class.) 1 (8thonormenand pass men in class).... |  | 1 (36 in class).. |  | 5 |
| Fotal ............ | $?$ | 4 | 4 | 2 | 19 |

Of these the lecturer takes 15 and the Fellow 4.
To these should be aided supplementary leetures and hours for correcting prose with individual students, making on an average abont five hours per week.

It will easily be scen that the amount of instruction given is in several items inadequate, particularly in the first and second years. To remedy this the scheme of classes below is recommended.

Number of Lectures per week necessary for present numbers.


In both tables the numbers on the class rolls have been considered. To these ( 33 hours per week) would be added a cartain number of supplementary lectures and hours for the correction of prose, making an average of say seven hours per week.

To do this work the present staff must at least be doubled, i.e., instead of one lecturer and half the services of a Fellow, there must be at least two fully qualified instructors and a full Fellow. With such a staff it would be possible to record attendince and progress in all the classes, until the number of students should be increased by abjut 25 per cent., after which additional assistance would be necessary.

## C. Grbman.

Mr. vanderSmissen, by letter of January 31st, 1891, gives the following statements and tables:

I beg to submit herewith for the information of the committee on the needs of the University and University College, a statement of the urgent requirements of the department of German.

In doing this, I beg to call your attention to the fact that this department is now under the charge of a lecturer, to whom are also assigned the duties, peculiarly onerous since the fire, of University librarian, and who is assisted by a Fellow, part of whose services are required for another department. I submit that this arrangement is protitable neither to the interests of the library, nor to those of the department of German, and that I ought to be placed in a position, without diminution of my present very inadequate salary, to devote myself exclusively to the latter as soon as possible.

I have asked for three fully qualified instructors, meaning thereby such instructors as are fit for the rank of lecturer. My reason for this is that, owing to the frequent changes in the fellowships, which cannot, according to the statute, be held by the same person for more than three successive years, one year in every three is all but lost, since, in the most favorable case, a new and inexperienced man has to be put in charge of certain classes once every three years. In my opinion, the only proper use of fellowships is to encourage post-graduate study, and the Fellow should not be hampered in this by such onerous duties as must at present be assigned to him Jf, however, the funds of the University do not allow of such a staff, two instructors of the capacity I speak of, with a fellow as hitherto employed, might possibly be made to do the necessary work.

The figures giving the number of students at present in attendance are taken from the ottieial registration returns in Mr. Langton's ottice.

## 1. Present attendance.

| Year.I | Taking honor work only | Taking pass work only. | Taking honor and pass work |
| :---: | :---: | :---: | :---: |
| 4th. | 17 | 7 | 24 |
| 3 rd | 22 | 18 | 40 |
| 2nd | 42 | 91 | 133 |
| 1st.... | 35 | 110 | 145 |
| Tota | 116 | 226 | 312 |

2. Lectures now given per week.

| Year. | Texts. | Pass work. Grammar, etc. | Texts. | Honor work. Composition, etc. | Philulogy. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4th. | 1 | $2\{$ | $\left.\begin{array}{l}1 \\ 2\end{array}\right\}$ | $2\{$ | 1 |
| 2nd | 1 | 2 | 1 | , |  |
| 1st. | 1 | 2 | 1 | . | . |

Making a total of 19 lectures.
Notes.-(a) The lectures on the 3 rd and 4th year tests are given in alternative
(b) To these hours should be added 10-12 hours per week of instruction in prose composition to smaller groups of students.
3. Number of lectures required for present numbers.

| Year. | $\begin{gathered} \text { Pass } \\ \text { Texts. } \end{gathered}$ | work. <br> Grammar, etc. | Liter:ature. | Honor work, Composition etc. | Philology, |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4th. | 1 | 1 | 2 | 2 | 1 |
| 3 rd . | 1 | 1 | 2 | 3 | 1 |
| 2nd |  | 4 | 1 | 3 | . |
| 1st... |  | 5 | 1. | 3 |  |

Notes.-(a) The four lectures for the 2nd year, and five for the 1st year in grammar, composition, dictation and sight translation, are required for the proper sub-division of the large classes in those yars into elasses not exceeding thirty. Of the five in the lat year, two or three would be for elementary work, suitable for beginners.
(b) More lectures will be required is soon as the attendance shall have increased by (say) twenty-five per cont.
(c) Additional hours will be necessary as soon as the German seminary shall have been properly equipped, and about fifteen hours per week will be necessary for correction of prose as aloove.

In order to satisfy the above requirements there should be a staff of three fully qualified instructors, by which is meant such as are fit for the rank of lecturer at the least.

## I). Spanisif ani Itaidan.

Mr. Fraser by letter of 26 th January, 1891 , gives the following tables and statements:

Statement of requirements for the teaching of Italian and Spanish in the University of 'Toronto.
Italian.


The total number of lectures per week 14 .
Spanish.

| Year. | Number of students in class. | Number of lectures per week. | Subject of lecture. | Additional duties. |
| :---: | :---: | :---: | :---: | :---: |
| 2nd | 37 | 3 | (irammar and texts. | As in Italian. See above. |
| 3rd.. | 21 | $3 \text { i. c. }\left\{\begin{array}{l} 1 \\ 2 \end{array}\right.$ | Composition and Grammar. <br> Texts, History of Litcrature and Philology. |  |
| 4th. | 15 | $4 \text { i. c. }\left\{\begin{array}{l} 1 \\ 2 \\ 1 \end{array}\right.$ | Composition. <br> Texte, History of Literature. Philology and old Spanish texts. |  |

Total number of lectures per week 10.
ction in prose

## tc. Philology.

1
1
1
..
r in grammar, (ub-division of ive in the lst
increased by
ry shall have for correction
f three fully ceturer at the
es and state-

Jniversity of
mal duties.
able amount of equired for the in of composixercises and utside of class nal duties. n. See above.

The estimate of the number of lectures per week ( 24 in all) is based on the requirements of the new curriculum (1891-5), which embraces extensive changes in the courses in Italian and Spanish, and which comes fully into force in these subjects at the beginning of the session $1892-3$. The number of lectures required per week next session (1891-2), of which the work is mainly on the new curriculum, will be 2l. The number. of lectures given at present is 15 per week.

The staff consists at present of one lecturer, with the prospective addition of one-third of the services of the two Modern Language Fellows. In order to overtake the work in 1891-2 and afterwards, the present staff (one lecturer) will require to be increased by the adrlition of a Fellow whose whole time will be given to Italian and Spanisb. Any considerable increase, say 25 to 35 per cent., will remer subdivision of the classes in the lower years necessary, and additional provision for teaching will then be reguired.

The lectures in Italian and Spanish (as University suljects) are open to students of afliliated colleges, and hence the nmmber of students in Victoria College presuing a Morlern Language course will have to be taken into account upon the rrmoval of that institution to Toronto.
E.-Latin.

Mr. Dale with reference to the memorial $A 7$ asks the attention of the Committee to the following statements:-

1. Latin, French and German (with English and Mathematies) form the foundation of the higher and Co.legiate education of the Province.
2. From figures for the present session supplied by the Registrar he finds the following facts :-
(a) Latin, French and German, with a staff of three lecturers and one and a half Fellows have 1,028 pass and 319 honor.- $1,34 \%$ attendantes.
(b) Greek, English and Hebrew, the other three departments in University College, with a staff of three professors, two lecturers and half the services of a Fellow have but 725 Pass and 283 Ilonor-1,00S attendances.
(c) The suhjects included in the Faculty of arts in the University, with a staff of eight or nine professors, three lecturers, and seven Fellows, have but 778 Pass and 557 Honor-1,330 attendances, i. e., actually 12 less than the three lecturers in Latin, Erench and German.

It thus appears that the three departments of Latin, French and German have considerably over one $l^{\prime}$ i ir $d$ of the whole number of attendances in University College and the Faculty of arts combined. He thinks that no further statement is necessary to show that these threo departments have the justest and strongest claims to the first consideration of the Government and the authoities, and that the steps taken to secure that consideration are fully justified by the interests of College and University involved therein.

## F.--Mathematics.

With reference to the memorial A 7 .
Professor Baker on 31st January, gives the following statistics of the Arts and School of Science students in the department os a correction of the numbors given in the memorial, and observes that they show increased responsibility and work in the department:-

Mathematics.


He adds that the arguments in the memorial seem convincing that improvements in the departments referred to demand the earnest consideration of those responsible for the University.

> G.--Philosophy.

With reference to the comparisons and statistics in the menorial A. 7, of 10th January, 1891, Professor Bald win gives-

1. A corrected statement of the students in philosophy for 1890 and 1891 as follows:--

Corrected Statement of Students in Philosophy Years 1890 and 1891.

1890 Pass.
Philos. 34 ; increase since $1880-7$.
(No Civil Polity)
Logic 136 ; increase since 1880-72.

## 1890 Honor.

Philos. 45; dec. since 1880-14. No Civil Polity.
Logic 40 ; inc. since $1880-1$.

1891 Pass.
Philos. (alone.) 186; increase since 1880 $-159$.
Since 1890-152.
Logic 139; increase since 1880-75. Since 1890-3.

## 1891 Honors.

Philos. (alone.) 63 ; inc. since $1880-1$. Since 1890-18.
Logic, one course in new curriculum.

The only decrease due to the separation of Political science from Philosophy, but more than made up by the increase in the present year 1891.
2. He objects to the numbers in the class lists from 1880 to 1890 as a reliable basis of comparison of the work done, because-
(a) They represent those who pass, not those who attend, with whom the teacher is concerned; he points out that the varying proportion of those who fail is valuable as indicating where there is a lack of teaching free.
(b) A single year should not be compared with one other single year; because one or both may be abnormal ; as were both 1880 and 1890 , each of which just preceded the commencement of a new curriculum.
(c) The pass lists do not include students from affiliated colleges, whom the Univer sity teaches but does not examine.
(d) The new curriculum, $i$. $e$. the figures for 1891, should be considered in dealing with each and all of the departments.
(e) The year 1890 was abnormal and useless for comparison because
(1) There was no professor in the department.
(2) Students in Civil polity (now Political economy) had been counted up to 1890, but then ceased to be so counted; thus making a difference of at least 15 , and accounting for the decrease in honor Philosophy.
(3) There is an increasing number of students from the affiliated colleges taking lectures in the department, at a very low estimate, 15 for 1890 ; these are not counted.
(4) The new curriculum makes an enormous difference in the number of pass students for 1891, shown by the registrar's lists, giving :-

Pass in Philosophy, '90 ..... 34 ..... 186
" " '91.
" " '91.
Increase ..... 152
Honor, ' 90 ..... 45
" '91 ..... 63
Increase ..... 18

## rovements in

 asible for the7 , of 10 th
ad 1891 as
lum.
osophy, but
eliable basis
the teacher valuable as
ecause one receded the
he Univer
in dealing
p to 1890 , d account-
3. He suggests that the time, growth, and condition of any department is best shown not by comparison with any other department, but by taking the proportion of students in the department to the whole number in the University at the same date, and that 1881 and 1891 would be the best years, as they are those which inaugurated new curricula.
4. While centesting the accuracy of the figures given in the lecturers' memorial, he adds that a very strong case remains for the Modern Language departments as regards representation on the Council, as to which he thinks the lecturers sliould be admitted to that of the College ; and as regards remuneration, as to which he thinks the lecturers should be paid at least $\$ 2,000$ a year, and that whatever else is done the salaries of all the lecturers should be increased at once.

He adds that if new professorships are created they should be filled after public competition only, and certainly not by the hasty appointment of any one.
H.-Cuemistry.

With reference to the lecturers' memorial of 10th January, 1891.
Professor Pike observes as folluws :-
The statistics are misleading so far as the department of Chemistry is concerned, because
(a) They contain only a small section of the total number of students to be taught, no account being taken of students of the School of Science and of the Medical Faculty.
(b) The University class lists are no guide to the numbers taught, because they exclude those who fail in several subjects, though they may have been the best of the year in some departments; and because they include students who have not been taught in University Oollege or the University Laboratories.

Professor Pike subjoins lists of students actually tanght as per registrar's lists continued up to 1887 ; and from reports of the School of Science with comparisons as follows :-

Pass Students.

| 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 110 | 114 | 84 | 60 | 51 | 59 | 67 |  | 52 | 68 |  |  | University students. |
| 12 | 14 | 11 | 17 | 25 | 35 | 49 | 46 | 43 | 50 | 21 | 24 | School of Science. |
| . $\cdot$ | ... | .. ... | ..... | ... | ..... |  | ...... | 140 | 131 | 145 | 145 | Medicals. |
| 122 | 128 | 95 | 77 | 76 | 94 | 116 | $\ldots$ | 235 | 249 | ...... | $\ldots$ | Totals. |
| 58 | 26 | 42 | 30 | 31 | 26 | 43 | 48 | 47 | 54 | 57 |  | As in statistics. |

The above numbers are from lists furnished by the Registrar which I still have and which were discontined in the year 1887 and also from the reports of the School of Science.

Honor Students.

| 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21 | 18 | 16 | 16 32 | 22 30 | 17 29 | 20 | 19 32 | 18 36 | 22 39 | 5 |  | Nos. as given in table. Actually taught. |

## I. - Mineralogy and Geology.

With reference to the comparisons and statistics in the Memorial A7, Professor Chapman ly letter of 26th January, 1891, observes that-

The memorial much understates the number of students attending the department; no accomnt being taken of the School of Seience students in attendance.

That instead of 113 , there are between 220 and 230 students.

$$
\text { Pass . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . } 140 \text { to } 150
$$

Honor students taking practical work:
Undergrads. Engrs.


Professor Chapman observes that it is quite misleading to compare the amount of labour and time occupied in teaching Modern Languages with that involved in teaching Practical Science, in which so mueh mannal work is involved, and so much preliminary preparation required for each lecture and lesson, that he has generally to spend an hour in preparing material for the lesson, during which (lasting commonly two hours and sometimes more) he goes from student to student explaining and demonstrating.

Further, that after lectures, much time is required to re-arrange and put away the specimens and diagrams; so that each lesson requires at least three hours and each lecture two.

Ite does not deny the neel of additional assistance in Modern Languages, but says the chief drudgery in these will be in looking cver and correcting exercises, and that there are many poor French and Germans (male and female) in the city who could be engaged at any slight remuneration to do the work.

> K.-Biologr.

With reference to the Memorial A7, Dr. Macallum by letter dated Febrnary 10th, received April 1st, observes :-

1. The statistics hardly yield a fair view. For the last ten years honor work in the department beyan in the second year, thus keeping the number of students 40 per cent. less than in the course begiming the first year. In consequence of the change, the number of honor students has increased by 39 per cent., thero being now 62 students in the course as against 21 in 1880 .
2. He does not think that the number of pass students given since 1880 is quite correct. According to his memory there were more than two pass students in 1885 when he was examiner in Biology, and he knows that the number of students attending lectures has in each year since 1885 been larger than is stated. This may be accounted for by their not going up for, or passing, their examinations.
3. In each year since 1887 there have been from 110 to 150 medical students, taking pass and honor subjects in Biology and Physiology. These are University Students taking the University examinations, but are not mentioned in the tables.
4. There are other factors besides the number of students attending an hour's class; e.g., the number of hours spent in class work is equally, or far more important, as longer
hours and students laboratory work are very much more irksome and wearying than giving even four or five lectures during the day. The class hours in French and German, stated at 20 hours per week, are doubtless heavy, but they are less than is necessary in the Biological department. The laboratory staft are engaged 71 hours a week in lectures and practical class work, or, excluling the purely medical classes, 66 hours or 22 hours for each member of the staff. This; exclusive of the time spent in preparing for demonstrations, which takes up every available hour of the day.

## L.-Polatical Science.

## With reference to the Lecturer's Memorial A.7, Professor Ashley observed

(a) That it presents a strong primi facic claim for additional assistance; not so much on account of the comparative, as on account of the absolutely large numbers of siadents.
(b) That as the work, both pass and honor, for the first and second years, in both French and German, seems from the Calendar to be of a comparatively elementary character, the necessary assistance might best be secured by the appointment of tutors, as in a plan now before the Senate, withont necessarily approving of any other feature of that plan.
(c) That, judging merely from the figures, it would seem that adlitional aid was required in History almost as much as in Frensh or German.
(d) That the memorial, while undoubtedly presenting good reasons for strengthening the teaching staff in Latin, Freach and German, seems to lay undue emphasis on the numbers of students as an incication of the extent of the need. A lecture on the History, of literature, on general political or constitutional History, on Philosophy, on Philology or on the higher Mathematics, may involve more strain on the teacher than two or three hours teaching of elementary grammar, or listening to students translating.

## Modern Languages.

On the 11 th April a deputation of the Modern Language Association met the committee, and discussed the subject, and presented the following paper :-

The follo wing table shows the teaching staff of the various branches of study in the Faculty of Arts, and also the expenditure for teaching. This tabie of expenditure does not take into account the very large sums spent on buildir.gs and equipment in Physics and Natural Science.

| Subject. |  |  | 荷 |  |
| :---: | :---: | :---: | :---: | :---: |
| Greek |  |  |  | \$4,850 00 |
| Latin. | 1 | $1)$ | 1 | 1,750 00 |
| Oriental languages. | 1 |  |  | 2,000 00 |
| English | 1 | 1 |  | 4.50000 |
| Ethics | 1 |  |  | 3,250 00 |
| Metaphysics | 1 |  |  | 3.25000 |
| History and Ethnology | 1 |  | 1 | 2,80000 |
| Physics.. | 1 | 1 | 1 | b,100 00 |
| Mathematics | 1 |  | 1 | 3,000 00 |
| Mineralogy and Geology | 1 |  | 1 | 3,600 00 |
| Biology. | 1 | 1 | 1 | 5,100 00 |
| Chemistry. | 1 |  | 1 | 3,600 00 |
| Political Science | 1 |  | 4 | 3,500 00 |
| French. |  |  |  | 1,83333 |
| German ............ |  | $1\}$ | 1 | 1,33333 |
| Italian and Spanish. |  | $1)$ |  | 1,833 33 |

'I:" "ity of status accorded to French, German, Italian and Spanish, complained' of $v$ th If ifs. in"guage Association, is shown by the above table. Every other branch of learning, wh the exception of Latin, is under the charge of a professor, while the subjects in question mos taught by lecturers who aro of inferior rank academically, and who have no voice in the administration of the departments under their care. The subordinate rank which is assigned to these languages in the orgnnization of the University and College is furthermore shewn by the amount of money expended in payment of the teachers of these suljeets, as compmred with the expenditure in other subjects. It will be observed that in all the modern languages the expenditure is less than in any other department (except Latin), and that in some cases the difference is very great.

The following facts and sonsiderations, in the opinion of the Moder Language Association, show the intrinsic valne of these languages as subjects of study, and the important position occupied by them in the work of the University and the high sehools, and prove that the inferiority of status referred to above is by no means warranted.

The demand which exists in the University and College for modern language teaching, relatively to that in other subjects, is shewn by the following comparative statement for the session of 1890 -1 furnished by the registrar.
, complained ter branch of pr, while the mically, and e. The subUniversity ment of the It will be any other

## Language

 d the imporsehools, andse teaching, hent for the
Nomber of Studenty Attending Pass Lectcres.


It will be observed that the number of honor students in each of the three departments of livench, Germun, Italian and Spanish exceeds that of uny other honor department with the single exception of English, while in many cases, the contrast is exceedingly marked.

In pass students the same numerical importance is to bo noted. The number of puss students in Fronch and German respectively exceeds that of muy other pass subject oxerpt English. From this point of view, then, it uppears that those subjects whieh have the strongest claims to organization and equipment are precisely the ones which are relegated to an inferior position.

Further, the inforiority of status complained of is not warranted by the position which these languages ocenpy in the courses of study prescribed in them hy the curriculum of the University. Attention is apecially directed to the high eharacter of the comse prescribed in honor Modern languages. It is belioved that this courso will compare favorably with my other honor course prescribed in the University of Toronto hoth as regarls the standard of excellence required, and in the usefulness of the course for purposes of clucation and culture. The importance of modern language study in the University is still further proved by the fact that a knowledge of either I rench or German is, as pass work, demanded of students in evely honor department preseribed by the curriculum ; so that in this respect these languages are of fundimental inportance in the work of the University.

Nor is the inferiority of status warranted by the position in which modern languages occupy in the high schools and collegiato institutes of Ontario. What has been said as to the fundamental character of the French and German as University studies is also true as regards the work of the secondary schools. In these, French and German are stulied by a large and rapidly increasing number of pupils. The aggregate number of pupils in French and Getuan is now considerably in excess of the number in Latin and Greek. This fact may be regarded as an index of the high position they now oceupy, and of their increasing importance in secondary education in this country.

Not only do the reasons given above prove that the inferior status to the morlern languages is unwarrantuble, but, on the other hand, it wus noted that their organization on a par with other branches of learning is provided for in the University Act ( 50 Vic. chan. 43 , secs. 5 and 77 ). It is there expressly stated that in University College French and Gorman shall each be taught hy a professor, lecturer, and Eellow, while in the University of Toronto the teaching, and the implied organisation of Italian and Spanish as a listinct department is provided for upon the same footing with History, Physics, Mathematics, and other U'niversity subjects.

What has already been said would, we believe, be good and valid reasons for the re-orgunization on such a basis as justice and expediency alike demand; but an examination of the teaching staffs of the varions universities of the United States reveals an additional argument of very great force. We find that the uniform practice there is to afford an honorable status to the languages in question, a status indeed equal to that of Classics. That this is the ease, the following table clearly proves:-
three drparthonor dipart. exceedingly
e number of pass subjeet lijeets which aes which ure
the position by the curriructer of the ; course will $y$ of Toronto he course for ge study in or Prench or it prescribed 4) importance
modern lanhat has been crsity studies French and The aggregate the number position they his country.
o the modern organization Aet ( 50 Vie. , ilege French o in the Unid Spanish as ry, Physics,
asons for the but an exatates reveals ractice there ced equal to

The stat's of American universities in Classics and Modern Languages:
P.-Professor ; A. P.-Associate Professor ; T.-Tutor, Instructor or Lecturer.

| College. | Latin. | Greek. | English, | French. | (ierman. | Remarks. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cornell. $\square$ | $\left(\begin{array}{lll} 1 & 1 & \ldots \\ 1 & A & \ldots \\ 1 & \text { anc......... } \end{array}\right)^{3}$ | $\left\{\begin{array}{ll} 1 & P \\ i & \mathrm{P}_{1} . . \end{array}\right\}^{2}$ |  |  | $\left(\begin{array}{lll} 2 & 1 \\ 2 & \mathrm{r}^{\prime} & \ldots . . \end{array}\right.$ | $\left\{\begin{array}{l}\text { In English } 1 \text { P. Baner } \\ \text { itus. }\end{array}\right.$ |
| Colmmbia .. | $\left(\begin{array}{lll}1 & \text { P. . } \\ 1 & \text { a }\end{array}\right\}_{2}$ | $\left(\begin{array}{lll}1 & 1 & \ldots \\ 1 & 1 & 1 \\ 3 & \mathrm{~T}, \ldots .\end{array}\right\}^{5}$ | $\left(\begin{array}{lll}1 & \mathrm{P}, \ldots . \\ 1 & \text { A. } \\ \text { t } \mathrm{T}, \ldots .\end{array}\right\}^{0}$ |  | $\left(\begin{array}{ll} 2 \\ 1^{\prime} & \ldots . . \end{array}\right)^{3}$ |  |
| Yale |  |  |  | $\left\{\begin{array}{lll} 1 & \cdots & \ldots \\ 1 & \ldots & \cdots \\ 2 & 1 & \ldots \end{array}\right\}$ | $\left.\begin{array}{lll} 1 & \mathrm{~A} . \mathrm{P} . . \\ 3 & \mathrm{l}^{\prime} & \ldots . . \end{array}\right\}$ | $\begin{aligned} & \text { P'ob. Whitney as T. in } \\ & \text { French, has a pro- } \\ & \text { fesor's rank. } \end{aligned}$ |
| Michigan . $\{$ \{ |  | $11 . . . . .1$ |  | $\left\{\begin{array}{lll} 1 & 1 & \cdots \\ 1 & 1 & \cdots \\ 1 & 1 & \ldots \end{array}\right\}$ | $\left\{\begin{array}{lll}1 & \mathrm{~J} & \ldots \\ 2 \mathrm{~T} & \ldots . .\end{array}\right\} 3$ |  |
| Virgimia.... $\{$ | $\left.1{ }_{1}{ }^{1} \ldots \ldots.\right)^{2}$ | $1 \mathrm{P} . . . . . .1$ | $1 \mathrm{P} . . . . . .1$ | $\left\lvert\, \begin{array}{lll} 1 & P & \ldots . . . . . \\ 1 & A & 1 \\ \hline \end{array} .\right.$ | $\left\{\begin{array}{l} \text { In Fr. \& } \\ \text { German } \end{array}\right\} 2$ |  |
| Kansay..... $\{$ |  | $\left.{ }_{1}^{1} \mathrm{P} \ldots \ldots.\right\}^{2}$ | $\left(\begin{array}{ll}1 \\ 1 & 1 \\ 1\end{array} \ldots . .\right\}^{2}$ | $\left(\begin{array}{ll} 1 & 1 \\ 1 & \frac{1}{2} \ldots . . . \end{array}\right)_{2}$ | T | T. in Greek also 「. in |
| Bowdoin ... $\{$ | $\left.\begin{array}{l}1 \\ 1 \\ T\end{array} \ldots \ldots\right\}^{2}$ | $\left.\begin{array}{llll}1 & 1 \\ 1 & \ldots\end{array}\right\}^{2}$ | $1 \mathrm{P} \cdot \ldots \cdot{ }^{1}$ |  |  | $\left\{\begin{array}{l} \text { T. in Latin also } \mathrm{P} . \text { in } \\ \text { French. } \end{array}\right.$ |
| Amherst | $\left(\begin{array}{cc}1 \\ 2 & \text { A, } \\ 1\end{array}\right.$ | $2 \mathrm{P} \ldots\}^{2}$ | $\left(\begin{array}{ll} 1 & \mathrm{P} \\ 1 & \mathrm{~A}, \mathrm{i}^{\prime} \\ \hline \end{array}\right)^{2}$ | 1 P | 11..... . |  |
| $\text { Califormia . . }\{$ | $\left.{ }_{1}^{2} \mathbf{P} \ldots \ldots\right\}^{\mathbf{P}}$ | $\left.\boldsymbol{l l l}_{2}{ }_{1} \quad \ldots \ldots\right)^{3}$ | $\left.\left\{\begin{array}{lll} 1 & \mathrm{P} & \ldots \\ 1 & \mathrm{~A} & \mathrm{P} \\ 2 & \mathrm{~T} & \ldots \end{array}\right\}+\right\}^{2}$ | 1 A. P ...1 | $1 \underset{T}{1} \underset{T}{\mathrm{P}} \ldots .\}^{2}$ | $\left\{\begin{array}{l} 1 \mathrm{P} \text { in Latin. } \\ 1 \mathrm{P} \text { in (rreek. } \\ \text { Tempornry. } \end{array}\right.$ |
| Williams..... | $1 \mathrm{P} . . . . .1$ | P ...... 2 | 1 ...... 3 | $1 \begin{aligned} & 1 \\ & 1 \\ & \text { A. } \\ & 1\end{aligned}$ |  |  |
| Howard.... $\{$ |  | 3 P..... 3 |  | $\left.\begin{array}{l} 3 \mathrm{P} \ldots . \\ 4 \mathrm{~A} . \mathrm{i}^{2} \\ 1 \mathrm{~T} \ldots . . \end{array}\right\}^{8}$ | $2 \mathrm{~A} P \cdot\}_{2}^{2}$ |  |

> Totals-Professors, Latin and (Greek (less two temporary)................... ${ }^{34}$
> English (less one emeritus) ............................... 26
> French and German ........... ............................. 33
> On Staff, Latin and Greek ................................................ 5 .
> " English..... ..................... ....................... 43
> French and German ........................................ 52

In a word, the Classics and Modern Languages (other than English) are on a footing of almost pe fect equality, all inder the charge of professons, with associate professors and arsistant, where necessary.

The members of the Modern Language Association regard the present condition of things as highly prejudicial to the inierests of modern language study, not only in the provincial University, butaso in the high schools and collegiate institutes of the province. Owing to the want of status ir the University, the administration of these departments through the Senate and other governing bodies is largely in the hands of those, who are necessarily ignorant of the circuwstances and wants of branches of study, with the teaching of which they are not directly concerned. It is true that by the courtesy of the Senate and its committec, the lecturers in Modern Languages have at times been consulted on matters connected with their work. It is equally true, however, that on various important occasions they have had no opporiunity of presenting their views

Very recontly, an importnnt and unexpected changeseriously, and, we believe, injuriously affecting the standing of the modern languages, was made in the curriculum without the lecturers in these subjects having heen invited, or permitted to present their side of the question.

Noreover, the suberdinate status of the Medrrn languages has a tendency to lead pupils in the Hiph Schools, preparing for the Viniversity, to brlieve that those sulijects are of less importance than others in the curriculum, and that they are unworthy of the same degree of carcful and attentive study, as that which must be givea to other subjects.

In conclusion, we would say, that the status of French and Giommen to day in the University of Toronto tends to degrade branches of stuly generally regarded as essential to literal culture ; that it is unfair to the very large numbers of stutents who, pursuing pass and honer courses in these languages, ure druied the help of properly remunerated teachers and professors, and that it is Mso detrimental to the cause of provincial secondary efluation ; that such injustice is not warranted by the condition of other departments, or by the state of the University fimances; that it is harmful to the prestige of the University, at home and abroad, to havo it known that in Toronto University badly equipped departments exist ; that it is a source of possible, indeed actual triction and conllict between members of the Faculty ; and that it is condemned by comparisen with the universal practice of other colleges of this continent.

In view of which circumstances, we ask that professorships be instituted in the Modern Languages.

## A.emmmendution.

The evidence above summarized so completely demonstrates the need for further teaching strength, that it would be waste of time to enlarge upon it.

It is proper, however, to observe that the present difliculty is intensified by the fact that many students take French and German without any, or with but the slightest, previous knowledge of the suljects.

These elements should be acquired in the high schools, and not in the University. It is to be hoped that they may, in the course of the next few years, be taught universally in the schools. It is suggested that provision should be made by the University to check the practice of students taking up French and German without proof that they have already acquired an elementary knowledge of them.

It is clear that, did funds permit, the staff should be at once placed on the statutory and proper footing of a professor, a lecturer und a Fellow in each of the branches of French and German; und that additional strength should be given in Italian and Spanish.

The following recommendations are made :-
French:
As in the first order of urgency-
The appointment of a temporary lecturer, pending the appointment of a professor.
As in the second order of urgency-
The appointment of a professor.
German :
As in the first order of urgency-
(1) The relief of the present lecturer from his duties'as librarian, in order that he may devote his whole time and energy to German.
(2) The appointment of a temporary lecturer, pending the appointment of a professor.
re, injuriously n without the sir side of the
duney to lead e sulijects are ly of the same mbjects.
to day in the d as ensential vho, pursuing remunerated incial suconddepartments, of the Univeradly equipped ntlict bet ween miversal prac-
ituted in the
d for further

1 by the fact lightest, pre-
niversity. It aniversally in to check the e already ac-
statutory and f French and

```
or.
```

As in the second order of urgency The appointinent of a professor.

## Italian and Spanish:

As in the first order of urgency The appointment of a fellow.

As in the thitd order of urgency The appointment of a professor.

## Latin.

The evidence on the subject of Latin is as follows:-

1. 16 th Oetober, 1890.

The memorin! above-mentioned as No. 3 in morlern languages!
(a.) The momorial of facts in support thereof mentioned as No. 3a. in Modern Languages.
2. 10th January, 1891.

The memorial above-mentioned as No. 7 in Modern Languages.
3. November, 3rd, 1890.

Letter of Mr. Dale for the information of the Senate Committea abovementioned, stating that the most urgent requirement in the department of Latin is the immerliate mppointment of a professor to take charge of the subject, and that its urgency was obvious from the two considerations :-
(1.) That the number of students in Latin is greater than that in any other department in arts save perhapp. Frughoh.
(2.) That with the present teaching facilities, viz., a lecturer and a fellow (who is sulso a Fellow in (rreek), there is ractically no provision whatever for teaching any of the hono: work in any of the years, and appending a statement of the stadends registered in Latin during the session as follows: honors $8 *$, pass 246 , total 328.
4. The report of the above-mentioned Sowate Committee that the requirements of the various departments (including that of Latin) were just and reasonable.
5. The report of the Board of examiners set out above as No. 9 in Modern Languages.
6. Mr. Dale by letter of 24th Janunry, 1891, gives the following statements and tables :-

Requirements for the efficient carrying on of the pass and honor work in the department of Latin, in University College.

These requirements are made with a view to the probable increase in the number of students during the next five years.
(a) The number of students registered during the present session in the various years are respectively :-


The staff, at present trying to deal with this large number of students, consists of one lecturer and half the services of the classical Fellow. Fourteen lectures per week are at present given, one of which is given by the department of Greek.

In no single year, either in the pass work, or in the honor work, can the work be efliciently carried on with the present staff, as will be seen from the following scheme which I consider indispensable for the eflicient conduct of the department.
(b) The pass class of the first year should be divided into four sections (A. B. C. D.) ; the pass class of the second year into the sections (A. B. C.)

The subjects on which lectures are telivered are four', viz., authors, composition, sight translation and Roman history.

The following sehemes will show the number of lectures required in the pass and honor courses respectively :-

Pass.


Honors.


The hank spaces indicate that the lectures, were omitted, are combined with those of another year, e. g., the composition of the third year pass is combined.
sision in the
he-1st, 2nd, and hor students of onor students of the department.
udents, con-- Fourteen department
ork, ean the n from the duact of the
our sections
B. C.)
ithors, com-
1 in the pass

Total.

mbined with is combined.
with that of the fourth year pass, ete. Thus, it will be necessary to provide for the delivery of twenty-six pass lectures and fifteen honor lectures, or a total of forty-one per week. This cannot be done with less than four properly qualified instructors, vi\%, professor, two lecturers, and a fellow. By c,mitting pass sight translation, a most essential sulyect, hut a sulyect not yet iacroduced into Colleas lecturing, the lectures could be reduced to thirty-there and one of the locturers dispensed with for a time.

It may seem that this demand is a large ore when compared with the present equipment, but it must he remembered that the department of Latin has not yet been orgatized, that it is the heaviest and prohably one of the most important departments in either College or University, and that it has received probably the least encouragement from the anthorities of any of the departments in the Üniversity.

## Recommentution.

This evidence makes a case at least as strong for Latin as lias been made for French and herman ; and the same observations apply.

The inequality of strength between Greek and Latin, having regard to all the cond tions, is very marked.

It , apears that there is some interchange of work between the members of the two staffis. It is recommentod that, penting the improvement of the staft in Latin, all posisible assistanee shonld be rendered to Latin by the staft in fireek.

The following recommendations are made :-
First order of urgency -
(1) The appointment of a temporary lecturer pending the appointment of a professor.
(2) The assigmment of the Fellow in Greek and Latin to Latin.

Second order of urgency-
The appointment of a professor.

Greek.
The evidence on the sulyject of Greek is as follows:-

1. January 9 th, 1891.

The memorial of Mr. Keys, leeturer in English, and Mr. Fairelough, leeturer in Greek, abstracted as No. 3 in the statement of papers under head D. English
$\therefore$ Professor Hutton, by memorandum of 2tth Jannary, 1591, reports on the needs of the departments as follows:--
(1) The present staff' consists of a professor, a lecturer, and a Fellow (whose services however are shared with the department of Latin).
(2) The stafl, according to the University Federation Act, is to consist oi a professor, a lecturer, and a Fellow in Greek (whose services are to be confined to Greek).
(3) The eflicioney ${ }^{4}$ the teaching in Greek would be increased up to the attaimment of $\Omega$ fair st :dard, were the Act brought into fore ; the present Fellow
being engaged almost entirely, as a matter of fact, in teaching Latin. During the present term, e.g., he takes two lectures per week in Greek, and against this the Greek lecturer takes one per week in Latin, and the professor of Greek one per fortnight in Latin; so that the present teaching in Greek could almost be done without any Fellow at all. The appointment of a Fellow in Greek alone would therefore make more difference than appears at first sight.
(4) But if the scheme now under discussion by the Facuity (in accordance with a resolution of the Senate recommending more elahorate supervision, especially of the pass classes) were to be carried out, the department of Greek would require at once two Fellows at the very least, and strictly and literally three (or even four), if the scheme at present discussed were to be minutely followed. The essentia: elements of this scheme are the subdivision of the classes so that no class as a rule contain more than 25 or 30 students taking the pass course, or again more than 12 students taking the honor course. Taking as a basis for calculation the number of students in Greek to be 90 in pass classes and 55 in honor classes (according to the figures recently furnished), and assuming that the more elaborate supervision of the pass work would involve some such scheme of lectures as follows:-

|  | No. of <br> classes of not <br> more than 25. | Lectures per week <br> m. Anthrsto <br> each class. | Lectures <br> per week on <br> prose. |
| :--- | :---: | :---: | :---: |
| 4th year pass. . . . | 1 | 2 | 1 |

Then results a total in pass lectures per week of 18 as against present total of 5 .

Assuming that the same thorough supervision is to be extended to the honor work, some such scheme as follows would be reasonaole:-

|  | No. of <br> claseses of not <br> more than 12. | Lectures per week <br> on anthors to <br> each class. | Lectures <br> on prose, etc. |
| :--- | :---: | :---: | :---: |
| 4th year honors . . | 1 | 4 | 2 |
| 3rd year honors . . | 1 | 4 | 2 |
| 2nd year honors . . | 2 | $2-4$ in all. | 2 |
| 1st year honors . . | 2 | $2-4$ in all. | 2 |

Total of honor lectures per week, 24 , as argainst present total of 13 .
Full total of lectures in Greek (pass and honors) per week, 42, as against present total of 18 .
(5) The present total of 18 representing, as has been said in section (3), substantially the work of two men, and 10 lectures per week being taken as a reasonable average for a professor or lecturer, and is lectures per week for a Fellow, it app ears that, if Fellows are still to be appointed under the present system, i.e., with leisure for private work, the scheme proposed above would require \&t unce a staff of five or six, according to the precise character of the lecturer; thus, if all the iecturers except the professor and permanent lecturer were to be fellows, four Fellovis would he reguired, and the whole staff in Greek would namber six.

If again, the permanent staff consisted of two professors and a lecturer, two Fellows would be probably sulficient, and the whole staff would number five.

Latin. During nd against this 1 of Greek one buld almost be n Greek alone
(in accorlance rvision, especiif Greek would rally threc (or followed. The ses so that no pass course, or a basis for calnd 55 in honor - that the more nch scheme of
tures
ruk on
Ise.
in all.
in all.
against present ed to the honor
etc.
of 13 .
42, as agninst
action (3), suben as a reasonor a Fellow, it at system, i.e., auire to unce urer ; thas, if to be fellows, Id number six. lecturer, tivo mber five.
(6) So long as the salary of a Fellow is only $\$ 500$ per annum, I do not think the University can fairly exk him to lecture for more than five times in the week; the opportunity - ivate study being one of the attractions which at present enables us to secu. competent men (and in Greek we have had most competent men) at a salary so inadequate.
(7) The scheme as outlined above, it will be noted, is only calculated to meet the needs of 90 pass students and 65 honor students. Any increase, therefore, in these numbers (and it is probable that the honor students' increase will more than counterbalance any further falling off in tho number of pass students), will require great additions to the staff.
(8) If I may be permitted to suggest an outline for the remolelling of the Greek staff wheu opportunity permits, on the basis of the seheme above, I should recommend some such organization as the following :-
(1) One professor of Greek literature,
(2) ". " history and philosophy,
(3) One associate professor of Greek literature,
(1) Two Fellows in Greek, if possible paid a higher salary, ( $\$ 800$ ), and prepared to give rather a larger part of their time to teathing than at present.

In other words the running exponses of the department would be increased from some 84,750 per annum as at present, to some 89,700 .
(10) 1 do not present this scheme with any idea that it is at present practicable, but on the understanding that what is asked of the Faculty is a statement of the recommendations ench proferssor wonld make, were the University's revenues sufficient for all the reasonable purposes of his department.

With reference to the memorial A.7. Professor Hutton, adverting to the paragraph as to the probable effect of certain changes in the curriculum, states that hu supposes this to mean, among other things, that these changes are calculated to lead to an abnormal and sudden rush of pass students into French and German. He is now convinced that this is the ense, and that the principal cause therefor is the discrimination against pass Greck to which he is directing the attention of the Senate.

## Recommendation.

The following recommendation is made :
Second order of urgency. - The appointment of a Fellow.
It is recommended that tho further consideration of this branch be postponed.

## English.

The evidence on the sulpect of English is as follows:

1. November 7th, 1890.

The letter of Professor dexanlor to the Revistrar for the information of the above Committee, stating that the individual instraction needful for the pass students of the first and second years repuites a division of existing classes into sections of not more than 30 stadents cach; that this, with pesent numbers, requires 9 mhlitional hours of teaching weekly; that in 1892-3 under the new curricuhm three or four hours of ahtitional teaching in the higher years would be required, and that the sudition of a Fellow to the present English statt would enable this work to be covered. Further stating that there is great neet of more practical instruction in English composition ; that under the present system, by 6 (U)
whieh the University takes no aecomnt, save through examinations, of the work done during the session, it is impossible to get students to do much in the actual writing of essays; that it is highly desirable that students should be required to write a edtain number of essays each session, the proper oxamination and eriticism of which wonld involse a large amome of time and arduous work not to be satisfactorily performed ly a Fellow: and that the addition of a lecturer who wonld take charge of this department is needful, if the University is to make provision for the proper study of composition.
2. The general report of the above-mentioned Senate Committec as above stated.
3. Jannary 9th, 1591.

The memorial of Mr. Key*, lecturer in Kinglish, and Mr. Fairclough, lecturer in Greek and Grecian listory, representing that their present remuncration, $\$ 1,500$ a year, is wholly insudicient to enable them to live in a mamer becoming their positiom ; still less is it sufficient to provide them with books and apparatus. necessary for their work; that its inadegnacy is hest shown hy a comparison with the salaries paid to the teachers in some of the Toronto Schools, which will show that the salaries paid to assistant masters in the Collegiate Institute and to the teachers of some of the pmblic schools are equal to theirs, and that at least one assistant master is paid comsiderably more; and further, representing that their work being professional, their salaries shonld be greater than those of public school teachers, and at leant as high as those of head masters in collegiate institutes; and praying, in view of representations made by other lecturers, for equal comsideration.
4. November 2 ! $!$ th, 1890 .

Letter of Mr. Keys to the Chancellor representing that as the claim of certain sub-departments for representation in the University Councils is being pressed, that of the sub-department of English philology should be considered, and pointing out:
(1) That philology is the sole work in second year pass English, Anglo-Saxon is required of all honor stadents throughont, and Gothic forms an important part of the fourth year honor work.
(ㄹ) That philology is obligatory on all pass students, and the honor course in English is the most popular, the attendance in honor lectures alone being about 150.
(3) Thet at Oxford and Cambridge there are separate prefessorships of Angio-Sran; in Havand and Johns Hopkins there are associate professors of Anglo-Sasonand old English: that at Yale, Commbia, Cornell and Ann Arbor there ar separate chairs for literature and languase.
(t) Chat there is a practical autonomy, the instruction in philology being atrusted wholly to the lecturer, and the teaching in Anglo-Saxom and Gothic being as distinct from that in literature as the teaching in physiology from that in biology.
5. November 29 th, 1889.

Letter of Professir Alexander to the Chancellor suggesting that the subdepartment of English language has similar claims to those advanced in other sub-departments for more distinct recognition and more adequate representation, referring to his inaugural address of October 12th, 1889, as indicating his view that the suljeets of languge and literature were distinet, and that there should be a chair for logguage ; and expressing the opinion that the time had now arrived for action, concurring in Mr. Keys' letter, and stating that at present Mr. Key's has the whole of the philological side of the department.

3, of the work a in the actual e required to mination and ous work not of a lecturer ity is to make
ttee as above
irelough, lecremuneration, ner becoming and apparatus oparison with ich will show te and to the $t$ at least one ng that their ose of public in collegiate lecturnes, for
the claim of acils j s being e considered, Anglo-Sixon portant part
nor course in being about
ssorships of mofessors of 1 Amin Arbor
ology being and Gothic $y$ from that
the subd in other esentation, gh his view Mre should had now at present
6. The report of the Board of examiners set out as No. 9 in Modern Languages.
7. By letter of April 10th, 1891, Mr. Keys states as follows:

In presenting a statement of the work done in English, Philology and Rhetoric, the defartment muder my care, a few words of explanation are necessary.

By the arrangement agreed upon by I'rofessor Alexander and myself at the time of his appointment, as to a permanent division of labor between us, the language fell to my share. Such a division of labor rendered possible a more systematic stuly of the history of the language in conncetion with the reading of Angh-Saxon and Midalle English texts. The importance of this work has been repeatedly referred to by the President, and it is gratifying to know that at last our course may challenge comprison in this respect with those of the best American and German universities.

But in this, the first session muler the new curriculum, it is impossible to bring into operation in the upper years ehanges which presuppose in the student a knowledge that he has not hitherto hat an opportunity of acyuiring. It has been necessary, therefore, to limit the omome of Anglo-Saxon, and in consequence the work done this year must not he taken as a criterion of the mount that will be required next year or the yar after, when the division of work in the Fourth Year will allow a stulent to graduate in honors in Tentonic languares, inchuting, on the linguistie sil, Auglo-Saxon and Gothic, hesides all foms of German. At least twelve ar arteen leetures in English linguisties will then be required. Before that tim $t$ is to be hoped that means will be at hand for sucb an equipment of the $A$ tment as was suggested ly Professor Alexander in his inaugural adifress.

During the past session I have l, ured once weekly to the honor students of the 1st, 2nd and Brd years on An_ Susou. In addition, I have given a course on Spenser to the honor students of the 1st and 2nd years, and one on Macbeth to the lionor students of the Brd: A pass course on the development of the languge hats been given to the $2_{1}$ year, and one on Rhetoric, based on the prose work set down in the curriculum the the 1st year. In connection with these pass courses essays have been wroten ly the students and examined by me to the mumber of over one hamdred.

I have thms delivered five lectures weekly, and examined from three to a dozen essays per week through the ression.

## Reswnmentation.

The following recommendations : made:
Sfeomd order of ureency.-The appointment of a fellow.
It is recommended that the further consideration of this branch be postponed.

## Pifysics.

The evidence on the suloject of Physics is as follows:-

1. September 4th, 1890.-Letter from Professor London to the Vice-chancellor, showing that the changes in the chemical, borogical and geological departments, with regard to requirements in Physies, rendered needful some provision for adlitional teaching in Physies, as without this the stulents in these other, departments could not he given the required instruction in Physies.
2. September 3rd, 1890.-Letter from Professor Wright to l'rofessor Loudon. pointing out requirements of the new curriculum as to inatruction in Physics
for Natural science students enbracing; a course with laboratory work for second yenr honor men, and adverting to the need in physies of students in the Physicochemical department.
3. Professor Lon don.-Memorandun of work of instruction performed by the present staff, and numbers of students from different departments requiring instruction in Physies.

As provision has been made for a lecturer in Physics to meet the demands, the details are not given here.
4. Professor Loudon, by letter of 3rd Febrnary, transmits the following tables, $\mathrm{A}, \mathrm{B}$ and C , as showing the present condition of the department:-

> A.-Courses of Experimental Lectures on Ihysies.

| Year. | Numbers in Classes. |  | Length of Course. | Subjects of Lectures. | Lecturer. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | $\left\|\begin{array}{ll}\text { Melical...... } & 76 \\ \text { Arts......... } 30 \\ & -106\end{array}\right\|$ | 2 | 15 weeks. | Introductory course......... .. | Professor MrKay. |
| [I. | $\left\|\begin{array}{lll}\text { Arts, Pass... } & 48 \\ \text { Honor........ } & 17 \\ \text { Engineers.... } & 22 & \\ & - & 87\end{array}\right\|$ | 2 | $22 \quad \text { " }$ |  | Professor Loudon. Mr. W. J. Loudon. |
| III. | Arts, Pass... 8  <br> Honor...... 18  <br> Engineers... 22  <br>  - 48 | 2 | 22 " |  | Professor Loudon. Mr. W. J. Loudon. |
| IV. | Arts, Pass... 14 <br> Honor....... 8 <br> 22 | 2 |  | Acoustics. | Professor Loudon. |

Notr.- Kach of these lectures involves several hours' work, on the part of the lecturer and mechanical assistant, iu preparing the experiments.
B.-Courses of Leetures on Mathematical Physies for Honors.

| Year. | Number in class. | Lectures per weak. | Length of course. | Subjects of Lectures. | Lecturer. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| III. | 18 | 4 | 25 weeks | $\left\{\begin{array}{c}\text { Statics, Hydrostatics, Optics, } \\ \text { I'article and Rigid Dy namics. }\end{array}\right.$ | $\left\{\begin{array}{l} \text { Prof. Loulon. } \\ \text { Mr. W. W. Loondon. } \\ \text { Mr. W. F. Seyus ur. } \end{array}\right.$ |
| IV. | 8 | 5 | 25 weoks | $\left\{\begin{array}{c} \text { Elasticity, Hydrodynamics, A } \\ \text { constics, Physical Optics, Elec- } \\ \text { tricity and Maanetism, Ther-1 } \\ \text { mo-dynamics, Least Sifures. } \end{array}\right.$ | $\left\{\begin{array}{l} \text { Prof. Loudon. } \\ \text { Mr. W. J. Loudon. } \\ \text { Mr. W. F. Seymour. } \end{array}\right.$ |
| Total. | 26 | 9 |  |  |  |

Nores-The mumber of lecturea par week delivered by the Professor, Demonstrator, and Fellow are, respectively 7 or $8,5,2$ or 3 .


Professor Loudon remarks that the duties of the stafl may be divided into the work (1) of leeturing to the pass and honor chasses, and (2) of wiving practienl instruction in the laboratory. In the former division of the work an introductory course of lectures has been recently added, which meets the wants of first yoar students in Medicine, Chemistry and the Natumal seienees. In the work of the inhontory, however, it has been fomm imposible to meat the hargely ineratsed demands for practical instruction which come for the first time from the honor stmdents in Chmmistry and the Natural sciences, and also from students in the recently estathished "department of mechanical encrineering in the Sehool of practical scince. So grat is this demand that whilst there are at present 20 students of homor Physice in the laboratory, there are 8.5 from other departments, inclouling puginecring, who require to be similarly provided tor. The extent of the increase in this banch of the work is also shown by the following comparison between the years 1858 and 1890 :-

| Laboratory students | (honor Physies) | ${ }_{1888 .}$ | 1890 26 |
| :---: | :---: | :---: | :---: |
|  | (other departments) | 29 | 85 |
| Totals |  | 42 | 111 |

A still further increase may be looked for in the present numbers, wore especially from the School of practical science, as Professor Gallmath informs me that he expects that the students in mechanical engineering will, within two years, mumber 58, instead of 18 , as at present.

The regular instruetors in the department are a professor, demonstrator and Fellow, and there is also a mechanical inssistant who has charge of the apparatus and of the workshop. As this staff eannot be expected to undertake more work than is now being done, it will be necessary, in order to meet present requirements, to provide further assistance, the amount of which may be best estimated by supposing the work of lecturing to be assion' 'to one part of the staff, whilst the practical instruction is undertaken by the other. Under such an arrangement the former work, involving the delivery of about 17 lectures per week, would require the services of a professor and a leeturer ; whilst the practical teaching in the laboratory, amounting to about 75 hours per week, would require at least the services of a demonstrator, an assistant demonstrator and a Fellow. This plan need not necessarily prechude an arrangement, stech as exists at present, whereby each member of the staff might take part both in lecturing and in supervising practical work in the laboratory.

## Recommendution

The following recommendations are made:-
First order of urgency-
The appointmeit of an assistant demonstrator, who should hold office for a term not exceeding thre years at $\$ 700$ a year.

> Second order of urgeney -

The appointment of a lecturer.
This latter arrangement would provide for the assumption by the University of the work done temporarily at present by Mr. A. C. McKay, and paid for at $\$ 400$ a year out of the 40 per cent. of medical fees reserved; but thought to be more properly University work required by the new curriculum.
vided into nis practian introats, of first e work of increaserl the honor nits in the School of resent 26 partments, extent of mparison
rers, more forms me ithin two
rator and apparatus tore work $t$ requireestimated ff, whilst arrangeer week, al teachquire at ow. This present, n super-

## ce for a

## Mathematies.

The evidence on the subbipet of Whthematice is as follows:-

1. November sth, 1890. Leeter from Professor Baker to the Registrar for the information of the abov-mmonem somate cominiter, stating that for the more complete erfapment of the department, a lecturer in Mathematies is neesssary; and that such an appontment womballow of ( 1 ) increased attention to the individual neel; of the stulents, hy greater supervision of written exercises during the session, mol by a greator livision of lator : and (h) the division of the larger
 lectures has made the aflicient performance of the work ly himself and the Fellow no longer possible.
2. Tha report of the Boant of examinery sut out as No. 9 in Molem Langunges.
3. Professor Baker states as follown:-
(a) The department would receive an eqnipment commensurate with its present needs by the aldition of two leeturers to the present staff of a professor and a Fellow.
(b) One lecturer aml an mditional Fellow would ba in part satisfactory.
(c) This increase in teaching power would make a division of classes pos. .̈.le, afford closer supervision of the student's work, and make more eflieient the means from time to time employed for adding to the nsefulness of the department.
(d) The fumdamental chanacter of mathematieal students in the educational system, and the fact that the high school teachers receive their traning in the Üniversity, involving an intinate relation between University and high sehool work, make the effective manarement of this lepartment, in important respects, of greater consequence than labor in depatments not so closely comected with the system of secondary elucation.
(e) By a smplementary letter of the 7 th February, 1s91, he says, that an appropriation of 875. is needed for the purchase of morlels for the teaching of intermediate and higher geometry; that he has visited Yale, Harvard and Clark Universities, and examined their models; and has proenrei eatalogues from Germany and Sweden, with prices; on which information this estimate is based.
4. By letter of April 13th, 1891, Professor Baker states as follows:-

My salary as professor of Mathematics is 8.00 a year loss than that of others of the staffocupying corresponding positions. The importance of my tepartment, the full attendance at my lectures, and the success of my students at other miversitics and elsewhere, only make me the more painfully alive to the unfarness of this discrimimation. My retention of the office of Dean may be regarded as a compensation. To this latter office, however, no salary attaches, and the rooms I gocupy with dining-hall bourd is no equivalent for the services I render. I wish however you should know that while, as in the past, willing to do all in my power fir University interests, I am not solicitous to continue to hold the office of Dean. Such double duties can hardly be to the alvantage of my department. They necesarily draw my attention from my subjects. They also prevent me fron engaging in impontant collatemal studies. This this year I was anxions to get away early to Gemany, to the meantageonsly pheed and entirely free to extend my acquaintance with the languge, but my connection with the Resilence makes my going very dombtful.

I therefore respectfully urge that, 1 be not diseriminated against in the matter of salary; and that I be reheved of the othice of Dean.

## Recommendution.

The following recommendations are made:-
First order of urgency -
The appuintment of a fellow.
Second order of urgency-
The appointment of a leeturer.
It is recommended that the further consideration of this !manch be postponed.

Phabosoris.
The evilence on the subject of Philosophy is as follows:-

1. November 5th, 18:0. Letter from Professor Baldwin to the above Senate Committee stating that an alditional instructor will be needed if the divisional recitation method of instruction be introducei, as is desirable in the pass courses.
2. The report of the Board of exmminers set out as No. 9 in Modern Languages.
3. Professor Baldwin observes in answer to the request of the committee :-
(1.) That the general necessity for more eflicient teaching of the pass elasses cannot be too urgently emphasized; and that, after raising the salaries of the lecturers to a living amount, the adoption of some scheme for improving the teaching methods of the University is our first need.
(2.) That for the efficient teaching of pass Logic, Psychology and Ethics the years should be divided into classes not exceeding thirty each; which will add from sixteen to twenty hours per week to the work of the staff, not allowing for growth in numbers.

One additional lecturer will be needed for this, the two professors being more than fully occupied with the honor classes.
(3.) That the "lectures" in his departmeat differ from those in languages, Mathematies, etc. in character ; as lectures in Philosophy require thorough and profound preparation.

Two of these a lay, or ten a week is the utmost that should be required; and are equal to donble the number in Glodern Languages. Having taught French and German himself he can compare the relative tax imposed on the lecturer by those and by Philosophy.

And this consideration takes away much of the force of the arguments for increased teaching in Modern Langrages diawn from simple numbers.

## Recommentation.

It is recommended that the consideration of these branches be postponed.

Ciemistizy.
The evidence on the subject of Chemistry is given under the head of "Buildings, Etc."

## Recommendation.

The question of policy raised under that heal of course arises as to the staff.
If the recommendation as to the tuition of the medical stmdents in the School of practical science is adopted, then the following recommemdations are made:-

First order of urgency-
(1.) (Arts.) Provision that the salary of the demonstrator, recer tly anthorized at $\$ 800$, shall be fixed at the regular rate suggested for such oflicers.
(2.) (Merlicinc.) Provision, ont of the forty per cent. resurvel from the medieal fees, for the extra strength required for the tuition of the medical students, as follows:-

A lemonstrator ; a Fellow ; in which case the existing urangements for tuition of this fund should be re-considered.

Mineralogy and Geology.
Reference is made to the evidence and recommentations under the head of "Buildings, Etc."

There is no demand for aid in thition.

## Biology.

'The evidence on the subject of Biology is to be found in part under the head of "Buildings. Ete."

The further evidence is as follows:-

1. November 8th, 1890. Letter from Professor Wright to the registrar, stating that he assumes that his request for information as to the most pressing requirements refers only to the Faenlty of Arts; and on that assumption replies by pointing out the division of the work thas:-
(1.) General biohogy.
(2.) Animal morphology.
(3.) Animal physiology.
(4.) Vegetable morphology.
(5.) Vegetable physiology.

That (1) and (2) are provided by himself, and (3) by Dr. MacCallum, the lecturer ; but there is no provision for botanical teaching more advanced than that contained in Number 1.

That the changes in eireumstances include more practical work and the use of five afternoons in each week by the elementary first and second year classes, that the Fellow's time is fully engrossed, and the professor has himself to give much more time than before to those classes.

That therefore increased provision should be made for the teaching of botany in the university.

IMAGE EVALUATION TEST TARGET (MT-3)



Photographic
Sciences Corporation


That in American universities of no grenter importance than Toronto, a separate teacher is provided for vegretable physioiogr, apart trom morphology and systematic botany; but that he wonk suggest that in the first instance a single teacher, well trained in medern laboratory methods in both aspects of botany, would suffice for present requirements.

That he has left out of consideration for the present the more effectual teaching of General biology as a pass subject, believing that the want indicated above is the more pressing.
9. The report of the committee of the Senate to which was referred the letter of Dr. Macallum, leeturer in Physiology, to the effect that the subject taught by Dr. Macallum is not in any such sense subordinate to Biology as to make it improper and umecessary that this subject should be represented in the Council of the University and that there would be positive alvantage in having it independently represented.
3. The report of the committee as amended by the Senate, expressing the opinion that Physiology should be represented in the Council.

Dr. Macallum by letter dated 10 th Felruary observes, referring to the remarks he makes on memorial A. 7, (which see), as follows:-
a. Professor Wright has already urged the appointment of a lecturer in botany. He also urges th: More so because the Fellow should not perform the large amount of work now imposed on him by reason of the smallness of the staff. It leaves him hardly any time for private work and study as contemplated in the creation of fellowships. That view of the fellowship has been apparently abandoned, but no one has countenanced as much as twenty hours work per week for a Fellow, yet without a change this is necessary.
b. He knows that many of the departments are asking for increases is staff. This causes him to modify proposals of his own, and wonld have prevented him from writing, but that silence now would lead to the belief that the department is satistiod with the situation, and that the staff is sufficient for the very large amount of work it has to perform.

## Recommendation.

The following recommendation is made :-
Second order of urgency-
The appointinent of a lecturer in botany.
In the absence of lrofessor Ramsay Wright, it has been impossible to obtain his views on the less urgent requirements of his department; and it is suggested that on his return a statement be procured from him for reference when the deferred claims come to be considered.

## Political Science.

The evidence on this subject is as follows:-

1. Professor Ashley, by letter of 23rd January, refers the committee, on the question of further assistance in the legal branch to the professors in that branch. He points out that the present arrangement can only be a temporary one, and
that soon either an additional lecturer unst be appointed for one of the three subjects now assigned to Professor Proulfoot, or some arrangement must be made by which Professor Proulfoot can give greater assistance in the English law;
2. Professor Ashley in answer to the cominittee, suggests as desirable additions to this department-
(c) Within a couple of years a short elementary course of lectures on Commercial law.

Mr. Lash has delivered four lectures in each of the last two years : the men are very grateful.

The subject has no distinet place on the curriculum; nor perhaps would it be desirable that it should ever be compuls. $y$ for any arts student.

But it would very suitably form part of a short commercial course, should such be instituted as in Dalhonsie and some other universities.

Professor Ashley is now considering in conference with bankers, how the University may be placed more closely in contact with the commercial professions, especially bonking; and this would probably be an important element of any scheme.

For $\$ 500$ probably, some distinguished lawyer might give a course of fifteen lectures which would suffice.
(b) In four or five years time it will be expedient to create a lectureship in Constitutional history with special regard to Canada and the United States.

The fields of Economics and Finance are wide enough for one professor, and though a Fellow has recently been appointed with reference to constitutional history, yet in the time numed the situation will be ripe for the appointment of a lecturer, beginning at $\$ 1,000$

## Recommendution.

It is recommended that the consideration of this oranch be postponed.

## Oriental Languages.

The evidence on this head is as follows:-

1. Professor McCurdy, by letter of 21st February, 1891, states that:
(1) It soems absolutely necessary that he should have some assistance.

It is not so much a question whether he should be relieved from excessive toil, as whether the work can be properly carried on. At present he has to lecture three or four hours a day; and even when thus going to the utmost limits of his capacity is compelled to slight some of the classes and certain parts of the work.
(2) He thinks, in fairness, his salary should be raised without delay to a living standard. Since 1888 he has been serving as full professor on an allow-
on the branch. ne, and
(3) The number of students is now over 70; much beyond any previous year.

The Toronto Oriental course is unique among ail the universities of the English-speaking world; and the whole work, especinlly in the training of specialists, is most promising in spite of its disabilities.

He refers for further information to Principals Caven and Sheraton.
2. Professor McCurdy on 11th April makes a further representation as. follows:
I. As to the need of tutorial help-

The friends of the department have always recognized that the students of Oriental languages stand in special need of tutoring or drilling, mainly because of the peculiar difficulties which the subject offers to beginners.

The following scheme with the accompanying observations may serve to shew what has been aimed at in the lecturing and teaching, and what we have been able thus far to secure:

| Year. | I. <br> Necessary | II. <br> Pass Honor. | Desirable <br> Pass Honor. |
| :---: | :---: | :---: | :---: |

"Oriental Literature" was made a graduating department in 1886. In 1888 I was made full professor with the sole charge of the work. At that time there were no honor students in the fourth year, as the honor work does not begin till the second year of the University course. I was therefore able in the session 1888-9 to fulfil all the duties without inconvenienee, according to scale No. III. above. But I have found the work of the two following sessions exceedingly oncrous, and in fact I have had to do injustica to some of my classes, so far as to rob a number of my men of the time and service which I felt I owed them. The failure to render their course complete and thorough I shall never cease to regret, and it has formed the bitterest personal experience of my University life in Toronto. The pass men of the fourth year and the honor classes of both third and fourth years have had particularly to suffer in this way. To the lower classes and to the pass men in general, who, I think, especially need sympathy and encouragement, I felt that I ought to give the most and best of my time.

Even this minimum scale of seventeen hours weekly cannot therefore be continued during next season, unless I am to have some assistance in teaching. But seventeen hours weekly is inadequate to fulfil the requirements of the course as scale No. I. is intended to indicate. Since the curriculum of $1890-95$ has been introduced, the insufficiency of the present time schedule has become more than ever apparent. Only the appointment, according to the terms of the Act, of a lecturer in addition to the professor, will furnish the teaching force necessary. The assistance that would be given by a Fellow would, however, in the meanwhile make the department at least workable.
lt should be added that a weekly seminary, in the work of which the more advanced students can take some independent share, is also, in my view, indis-
pensable ; especially as post-graduate students, whose claims are not otherwise at present deferred to, can thereby be materially forwarded in their studies. Such a seminary was held during the present session for several months, and was found to be very profitable. For this excrese one hour has to be added to each of the above totals.

I may say, further, that at the time of my appointment as professor in 1888, I stated to the authorities (in answer to a question by Mi. Mowat) that I expected to need the services of a Fellow after two years, as a consequence of the development of the work.
II. As to iny claim for an increase of salary, I would adduce the following facts:-

In the arts faculty there are (excluding the President) :-
8 professors receiving $\$ 3,000$ or over ;
1 professor receiving $\$ 2,500$, with board, etc., as Dean;
1 professor receiving $\$ 2,000$.
This disproportion in one single case has seemed to me inexplicable except on one or the other of the following suppositions; either that the department, in spite of its being considered worthy of an independent place as a graluating department, is not deemed to be of sufficient importance to be honored with a regular professor's allowance; or that the incunbent is considered so conspicuously inferior to his colleagues in academical qualities as not to be worthy of a living maintenance. This conclusion has been forced upon me, particularly, by the circumstance that no relief bas been afforded to me in spite of the assurances of the Minister made to me repeatedly within the last two years, that my salary would be raised as soon as funds were available for such purposes, while the department of Philosophy has within that period had an additional professor appointed, and the professor of Political science, whose appointment was almost coincident with my own, and whose salary was fixed at $\$ 2,500$, has had his allowance raised to $\$ 3,000$, and has received besides the assistance of a Fellow. The grievousness of this discrimination may be seen to be aggravated by the circumstance that in neither of the two departments just named is any work required of first year men, and the total number of hours of teach 'ng is in neither of them nearly equal to that imperatively demanded by the Oriental course. The effect of this whole system of disfavor was to make me feel so handicapped, squeezed and humiliated, that it was at the earnest solicitation of Drs. Caven and Sheraton alone that I refained from resigning my position last Nuvember.

The combined influence of excessive toil and inadequate remuneration has been to seriously cripple my efforts to serve the University and the world duly and worthily. The engrossment of iny time with work in and for the class-room, and the necessity of using my pen for the purpose of increasing my income, have prevented me from completing and publishing text-books desirable for my own classes, and especially an extensive work by which I had hoped that Biblical and Oriental science would be somewhat advanced. I do not hold my department to be the most important of all branches of liberal or special culture, but I magnify my office in thinking that it may and ought to be occupied in promoting the glory of God and the enrichment of man's intellectual and moral estate.

The total number of students attending my classes on the Registrar's certificate during the present session was 82, classified according to years as foliows:-

49
23 (including 4 in honors.)
4 (inchuding 1 in hotors.)
6 (including 2 in honors.)

The small number appearing in the third and fourth years is to be accomuted for by the fact that this was the first session in which Hebrew options were granted pass men in these year:- Most of the students are naturally looking forward to a theological course, but the ablest pupil I have had (ti:e GovernorGeneral's gold medallist of last year) is devoting himself to Oriental studies is his specialty for their own sake; and one of my first year students this session was a lady.

Not only is the number of students increasing, but their interest in their stadies is also growing, and their progress every year more marked. The future of the department is full of promise if the work can be etticiently carried on.

Finaly, I may be allowed to say, that there is, so far as I know, no other University in the English-speaking word, except Oxford and Cambridge, where Orientul Literature ranks as an undergraduate subject with other branches of gencral culture. Nor am I aware that there is any other arts college in Great Britain or America where the number of Semitic students, inchuling both graduntes and undergraduates, is nearly so large as in the University of Toronto. Yet, to speak of American institutions alone, Harvard has two fnll professors in this department, Yale one professor with several assistants, the University of Pennsylvania three professors and Johns Hopkins one professor, in "assoeiate" (or lecturer) and a Fellow.
3. Principal Caven and Principal Sheraton on 13th April, state as follows - -

そe would respectively press upon your earnest consideration the claims of the department of Orientals, both because of its vital importance to the work of the Theological Colleges and because of the vary promment position in recent years accorded to the investigations and studies in this department, in relation to historical and philological research.

We are strongly of the opinion that this department ought to be placed upon the same level as other departments devoted to linguistic and philological study. It is entitled to this recognition both on account of its own intrinsic importance, and on account of the character and value of the work actually carried on. Until quite recently it was placed in a markedly inferior position both as to the status and emoluments of the head of the department, and the place assigned the work in the curriculum. A partial recognition has at length been accorded, but we would respectfully urge that as soon as the resources of the University and the necessities of the various departments permit, its status, both as to the emoluments and the strength of the teaching body, should be placed more upon an equality with similar departments, and its place in the curriculum side by side with other language departments fully reconnized.

Students in Orientals in the arlier years of their course require very much tutorial assistance, without which we do not think that in ordinary cases satisfactory progress can be made. The professor cannoi posslbly give such continuous supervision as is necessary, especially for the pass men. We would therefore represent the desirability of establishing at an early date a fellowship in Orientals, similar to the fellowships in Classies and in Moderns.
he Registrar's certifiyears as foliows :-

4 in honors.)
1 in hosors.)
2 in honors.)
us is to be aceounted Iehrew options were e mintually looking had (tlie GovernorOriental studies as itudents this session
eir interest in their marked. The future utly carried on.
as I know, no other Cambrilge, where $h$ other branches of ts college in (reat eluding both gradiversity of Toronto. o full professors in the University of or, in "nssociate
state as follows ation the claims of nee to the work of position in recent ment, in relation to
ought to be placed ic and philological of its own intrinsic the work actually ly inferior position epartment, and the tion has at length as the resources of permit, its status, ig body, should be id its place in the recognized.
require very much dinary cares satisve such continuous 3 would therefore vship in Orientals,

## Recommendution.

The following recommendation is made.
First order of urgeney : the temporary appointment of a Fellow pending the appointment of a lecturer.

Second order of urgency : the appointment of a lecturer.

## Libifabian.

Reference to "A" Modern Languages mider the head of German, will show that from a departmental point of view the nppointment of a librarian is in the first order of urrency.

This apmointuent is also in the same order in view of the condition of the library.

The books are now being collected and catalogued, and the whole time of a competent man is required; mater the new system the library will be much more largely used than betore, and its nsefuluess will greatly depend on the knowledge and etliciency of the librarinn, who shonld grow up with the library.

It is recommended that a librarian be appointed.

## General Resuly of Recommendations.

The ireneral result of these recommendations, grouped in the order of urgency, is as follows:-

| First Orier of Urgency. | Minimum initial salary. |
| :---: | :---: |
| Freneh, temporary lecturer | \$800 |
| German (transfer of entire services of present lecturer from |  |
| library to German, cust charired to German | 1,000 |
| German, temporary leeturer | 800 |
| Italian and Spanish, fellow. | 500 |
| Latin, temporary lecturer. | 800 |
| Latin, nssignment of half fellow, Greek and |  |
| Physies, assistant clemonstrator | 700 |
| Mnthematics, fellow | 500 |
| Chemistry, provision for yearly increase to | r. . 100 |
| Oriental languages, temporary fellow. | 500 |
| Librarian (necessary in order to transfer of German, cost charged to German). . . . . . | to |
| Total | . 85,700 |
| Second Order of Urgency. |  |
| French, professor | \$2,500 |
| German " | 2,500 |
| Latin " | 2,500 |
| Greek, fellow . | 500 |
| English " | 500 |
| Physics, lecturer | 800 |
| Biology " | 800 |
| Oriental languages, lecturer. | . 800 |
| 'Total | . . 810,900 |

Minimum initial salary .
French, temporary lecturer1,000
German, temporary lecturer500
Latin, temporary lecturer. ..... 800
Physics, assistant demonstrator ..... 700
Mrthematies, felow100
Oriental languages, temporary fellow. ..... 500Second Order of Urgency.Minimum initial salary.
French, professor2,500
Latin500
English ..... 000
By, ..... 800
Oriental languages, lecturer$\$ 10,900$

But from this is to be deducted the relief from the salaries, to be obtained by these appointment.s.

The minimum relief, cyen assuming the appontments to be all made during the next financial year, will be as follows:-


Thus reducing the total addition of charge in the second order of urgency to $\$ 7,700$.

But it may be thought expedient by the Executive, either with a view to earlier action than the condition of the funds will otherwise allow, or from other considerations affecting the filling of the chairs, to appoint in one or more cases to associate professorships.

In case any of the chairs are so filled, the halance of 87,700 will be further reduced ty the difference of salary between a professor and an associate professor, being $\$ 700$ for each chair so filled, making a further possible reduction in charge of $\$ 2,100$, which would bring down the initial charge to $\$ 5,600$.

And in case it is thought expedient by the Executive to appoint any present lecturer to a chair, the balance would be reduced by the difference between the salary of such lecturer and that of the temporary lecturer, making at present $\$ 700$ for each chair so filled,

> Thirel Oreler of Urgency.

Minimum initial salary.
Italian and Spanish, professor
$\$ 2,500$

## Probable Time for Action.

These figures show the probability that our finances will admit of the cases in the first order of urgency, including therein the establishment of the retirement fund, being dealt with during the next financial year; and of the remainder being disposed of perhaps in part during the same year, and at any rate soon after.

## Deferred Clams.

It is proposed that the deferred claims should be taken up and dealt with comprehensively as soon as the condition of the finances gives a prospect of their being met.

## Clerks, Assistants and Servants.

It is recommended that these cases, which are not numerous or comparatively important to the University, but which are of consequence to the individuals, and should be regulated, be taken up by the authorities for inquiry and action; as they are not conceived to fall within the scope of this reference.

The whole unanimously adopted.
be obtained by
all made during
$\$ 900$
900
900
500
\$3,200
er of urgency to
with a view to w, or from other te or more cases

will be further sociate professor, uction in charge

oint any present nee between the at present $\$ 700$
inimum initial salary. $\$ 2,500$
dinit of the cases of the retirement remainder being e soon after.
$p$ and dealt with prospect of their or comparatively o the individuals, quiry and action; nce.

BLAKE,
Chairman.



[^0]:    *Note. - The present salary of the Demonstrator in Physics is $\$ 1,500$. His initial salary was $\$ 1,200$.

[^1]:    Political Science
     $\qquad$ Biology Me.............................
    

    Itxlian and Spanish 8. University College, general Mineralogy and Geology.................... English .................
    
     : : :

