THE O. A. C. REVIEW.

The Dignity of a Galling is its Utility.

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THE O. A. C. REVIEW.

PUBLISHED MONTHIA, BURING THE COLLEGE YEAR, BY THE LITERARY SOCIETY OF THE ONTARIO AGRICULTURAL COLLEGE, GULLER,

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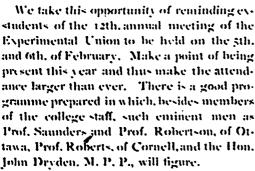
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Existudents will confer a great favor on the Liditors of this journal by sending news, particularly experiences of practical value.



editorial.



The social union should attract many; the officers are always glad to see existudents back again, however short the visit must be, while the commencement of many a friend-ship can be traced to these meetings between associates and present students. Rest assured, then, of a hearty welcome and a very leasant and decidedly profitable time.

We feel convinced that there are yet many scattered throughout the Dominion who would be glad to hear news of the old place. Will not our present readers help in increasing the circulation of the RLATEW? When writing to any ex-student, or whenever you come across one, see that at least he knows of the paper, and urge him to subscribe for it. We have no enticing premium list to offer because we believe that all connected with the college will take genuine pleasure in the endeavor to enlarge the area of our usefulness.

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There is a great deal of conversation here just now about the Institutes. We wish we had space to record all the funny things and interesting items we have already heard. One thing, we feel, deserves attention at the hands of the ever increasing class of existu-While we rejoice that many were taking a prominent part in the meetings, we grieve to hear that in some districts the old boys were conspicuously absent. Has the coarse here proved of no benefit? Was the Literary Society training of no avail? Is there not a real desire for increased knowledge and enlightenment on the latest phase of scientific and practical agriculture? Does it mean that a whole year with all its experience has slipped away and given nothing worthy of note or question? What screw is loose? Surely we are alive to the fact that Ontario farmers have their eyes upon exstudents and have a right to expect of them great things. Let us wake to a sense of our responsibility in the matter and see to it in future that papers and discussions shall not iack interest on our account.

Be sure and have the essays ready in time.

"Give me a kiss, my darling, do,".

He said, as he looked in her eyes so blue;
"I won't," said she, "you lazy elf,
Screw up your lips and help yourself,"



Earthworms.

The work which earthworms perform is much greater than many would at first suppose. They are very numerous in most parts of this country, and so apparently insignificant are they, that we seldom notice them, although in cultivating the soil they are at acids are formed whose tendency is to aid certain seasons numerously exposed to view the process of disintegration. by the plow. The amount performed by a single worm appears to us very small, but as rectly enriched by them in two ways. They of soil, in one year, from ten to twenty tons! of earth are brought to the surface by worms, I the soil they form plant food.

Darwin says: -" Although paratively low. light and darkness. and have only a feeble power of smell. Their sense of touch alone is well developed." The common earthworm (Lumbricus terrestris), breathes by means of pores in its sides, and creeps or burrows by means of setae or bristles, which are situated on the segments of the body. In proportion to their size they possess great muscular power. A spiral muscle runs around the body from the head to the taii; it is owing to thi smuscle that they have the power of lengthening or contracting their bodies at will. One authority states that an earthworm, when cut in two, in the anterior half, will form a head; in the posterior half a new head.

are hatched by the warmth of the soil in interferes with vegetation. from twelve to fourteen days. sometimes contains two embryos. the young first appear they are very small, the burrows; it can also fill the interstices lasts, but it certainly lasts for more than two l or three years.

The following are some of the ways in which earthworms are beneficial to the search of food. By occupying the burrows, agriculturist:

- 2. In enriching the soil.

- 3. By aiding the draining and aeration of soil.
- 4. By forming passages for rootlets in search for food.

Sciencists tell us that the decomposition of soil and rock is aided both mechanically and chemically by the action of of worms. The mechanical action, which is small, consists in the grinding movement of the particles, which are moved by the collapsing of burrows. By consuming and digesting considerable organic matter, which is deposited in the earth, certain organic

The soil in which earthworms live is dithey work together in large numbers they not only consume leaves and parts of plants, are enabled to perform much. On each acre | but drag them into the ground; as these partly decayed and digested leaves mix with The large In the scale of organism they rank com- amount of subsoil which is brought to the surface also adds to the richness. they cannot see they can distinguish between cite, as an illustration, the result of an ex-They are wholly deaf, periment by a notable scientist. "Von Hensen placed two worms in a vessel eighteen inches in diameter, which was filled with sand, on which fallen leaves were strewed; and these were soon dragged into their burrows to a depth of about three inches. ter about six weeks an almost uniform layer of sand, two-lifths of an inch thick, was converted into humus, by having passed through the alimentary canals of these two worms."

Some believe that worm-burrows, which penetrate the ground perpendicularly to a depth of nearly five or six feet, serve as a good medium to aid drainage. Although the worms check the direct entrance of water by depositing castings over their burrows, still Earthworms are viviparous animals. The the water may gradually soak through and female deposits her eggs in the earth, these pass away from the surface, where a surplus By the removal One egg of surplus water the air can penetrate deeply When | and freely into the ground, by passing down but fully developed, and do not undergo any formerly occupied by water. The presence change of form during their existence. It is of air is beneficial to the soil, as it affects the not generally known how long their life temperature, and supplies moisture and food to the roots of plants.

Worm-burrows greatly aid the downward passage of delicate rootlets, and fibers, in rootlets can not only extend freely, but can 1. In reducing the texture of soil and rock, also feed upon the humas with which the burrow is lined.

on, not only in our own and in European | containing the addresses made, papers read, countries, but in many other parts of the and the important discussion on these. world as well. The plow, one of the oldest inventions of man, has done much in preparing the soil for the sustenance of vegetable life, but long before its existence the land was, in a measure, tilled by earthworms and this same action is going on to-day under the proper conditions for the existence gave their whole time to this work. and action of earthworms.

Thus earthworms, though very insignificant creatures, may possibly have accomplished as much in the grand, old workshop of nature, as many of her more highly and delicately organized artizans.

The study and observation of these small creatures, and their habits, is not only of interest to the scientist, but also of great value The coming agriculto the agriculturist. turist, he who shall combine the scientific with the practical, will not think any object beneath his notice, which bears directly or indirectly upon his calling. The environments of the agriculturist of the present are such that he cannot become a mere theorist, captivated by some startling discovery, which when completed, is to be the greatest boon He will be intensely practical, owing to the solidity acquired by research and investigation in the microscopic world.

In the grand old economy of nature nothing is ever lost. Hence the relation of cause and effect must ever be one of absorbing interest to him who seeks to penetrate the wondrous harmony of the whole.

RESURGAM, O. A. C.

A Report of the Farmers' Institutes Needed.

During the past month, through the instrumentality of the Farmers' Institutes, the If enlarged attendance and increased interest be made more effective in Ontario. at these meetings is an indication of success, certainly those engaged in the work should The Qualities of a Good Dairy Great, however, as has feel encouraged. been the success in the past, let progress ever be the watchword, and let nothing be She's long in her face, she's fine in her horn, left undone that will increase success in the She'll quickly get fat, without cake or corn; might be made, by publishing an annual re-

The work which earthworms do is carried port of the meetings held during the year,

Some idea of the valuable contents of such a report may be had, when we consider, that besides the numerous local speakers who took part in the meetings during the last month, there were twenty-live specialists in the different branches of agriculture, who of these had prepared at least three or four different subjects for discussion, and nearly one hundred incetings were held at which these and other subjects were discussed, many new and valuable ideas being brought out. Would not a report containing all these be of no small value to farmers?

As yet there is no record of these, other than the imperfect, occasional account in the newspapers. Some of the local papers have certainly given very good reports of the meetings held in their own locality. But as few farmers take more than their own local paper, it is plainly to be seen, that to the majority, the greater part of these valuable addresses, papers and discussions are lost.

A compiled report distributed to each member of the Institutes, would enable him to reap the benefits, not only of his own local meeting, but of all the other meetings in the Province.

The compilation of such a report would entail, no doubt, some additional expense, but this would be a small item in comparison with the increased benefit derived from the That so much has been expen-Institutes. ded already, to make each meeting beneficial to the farmers of a particular district, seems in itself a reason why a little additional should be expended to carry the benefits of every meeting to all.

This method of widening the work of the Institutes has been adopted already in some good work of spreading information, relative of the States with marked success, and we to Agricultural and Horticultural pursuits, hope before another year arrangements will has been going on throughout the Province, be completed, whereby the work may thus

Cow.

One step in advance, we think She's clean in her jaws, she's full in her

chine.

She's heavy in flank and wide in her loin. She's broad in her ribs and long in her rump, She's straight in the back without never a

She's wide in her hips, and caim in ther eye. She's fine in her shoulders and thur in her thigh;

She's light in her neck and small in her tail, cold winds. She's fine in her bone and silky of skin, She's a grazer without and a feeder within.

Rural Canadian.

Evergreen Windbreaks.

At no other season of the year, perhaps, can a windbreak be so appreciated as in the When piercing winds sweep the; country we begin to realize what a benefit the universal planting of windbreaks would be, but as the time comes when we should profit by such experience, the balmy breezes of [spring or peaceful days of autumn divert our thoughts, and their planting is neglected.

Without doubt, however, the judicious planting of evergreens would add very much to The majority of farthe value of our farms. mers and fruit growers have not given this subject the attention which its importance demands.

Let us arouse ourselves in this respect and a consider some of the benefits of a good windbreak. Probably the greatest direct benefit is! the check offered to the violence of winds at all seasons of the year, which, as the country becomes cleared up, are becoming more frequent and violent, and are always detrimental to the growing of fruit or grain, as well as to the comfort of man and beast. One of the most disastrous effects of wind is the sweeping of the surface of the ground, causing excessive | winter carrying off the snow, thereby exposing (are required. ing the wind and retaining moisture, and all concerned, take the place of division fences. leaving the snow on the level acting as a mulch.

in connection with an orchard the benefits of a windbreak are many: By enabling trees; to grow more erect and symmetrical; protecting blossoms from severe winds; lessening the with the evergreens, fruit, or weighted down with ice; reducing the

to find, after a heavy September or October wind, the greater part of his' choice fruit bruised upon the ground? Less wind and more fruit would be to the advantage of the orchardist. In many cases an advantage de rived is the hastened maturity of fruit exposed to the warmth of the sun and sheltered from The greater facility, also, with She's wide in her breast and good at the pail, (which labor can be performed in windy weatler under the protection of a windbreak is worthy of consideration.

> As a matter of economy in cattle feeding or saving in coal bills it pays to have the barns and dwelling sheltered from the prevailing winds of winter.

Perhaps no other farm improvement combines so well the useful and ornamental. winter, by its very presence, an evergreen windbreak gives a home a look of coziness and comfort.

As to the kind of trees to plant and arrangement of planting, two considerations should guide us utility and beauty. While some other evergreens beside the Norway spruce make good windbreaks, this variety, being perfectly hardy, making rapid growth on almost any kind of soil, and not being easily injured by trimming, is pre-eminently the best for general purposes. If deciduous trees are planted with the evergreens, the light and dark green of their foliage in summer forms a beautiful contrast, for this purpose the maple is one of the best trees to plant in connection with the Norway spruce.

In locating a windbreak so much depends upon the cantour of the land that it hardly seems practical to devise any rule to guide us, beyond keeping in mind that the bject should be to prevent the direct sweep of strong currents of wind on the land. Usually the greatest need of protection is on the west, and it is evaporation from both soil and plants, and in there that the strongest and tallest windbreaks Most farms might advantagethe roots and crowns to injurious conditions, jously have a windbreak on three sides, and, Good windbreaks prevent these evils by check | could neighbors agree, it might, with profit to

The method of setting out the trees gives rise to a variety of opinions. Some prefer a I single row of evergreens, others a double row, with trees alternating, while some modify the latter by planting a row of maples alternating On the farm, here we liability to breaking of limbs loaded with have all three kinds, and each has its advantages. The first takes up least land, the second is most effectual in winter, and the third is proportion of windfalls, a matter of no small most ornamental in summer. If planted in a Who has not been disappointed I single row the trees should not be less then

six fect apart, unless the intention is to keep When planted eight feet apart, the windbreak will grow higher, in time just as effectual, and will last longer without becoming dead in the bottom, still the Norway spruce, standing more crowding than any other evergreen, will maintain its beauty in this re-In the single row of this kind on the west of the College lawn, the trees put out seventeen years ago now average about 25 feet in height, and, although only 3 feet apart, are still quite green in the bottoms. On the south and east sides of the lawn, the same kind of trees put out out at the same time, 30 ft. apart, now average about 30 feet in height, and spread about 12 feet at the bottom. In a row 7 feet from the trunks of these, and alternating with them, is a row of maples put out at the same time and now averaging 25 feet high. Although the maples allow the wind more of a sweep in the winter, this in summer is a very effectual as well as most beautiful windbreak. But in our estimation the most practical windbreak would be one similar to the double-rowed one growing here on the north side of the In it the rows are S feet apart, and the trees 10 feet in the row, alternating with each other. Although planted only ten years these trees now average about 20 feet in height and are so dense at the bottom that they form a barrier to all surface winds.

Much care is required in the transplanting of evergreens. Although easily grown they will not stand nearly so much rough handling when out of the ground as deciduous trees, and for this reason should be planted as soon as possible after being taken up; the roots carefully protected when out of the ground, and all the better to have the planting done in cloudy, damp weather, when the roots will not be exposed to the sun or drying winds. The planting may be done in spring or autuum. Many think August the best time.

In selecting the trees choose those that are young and small. Many farmers err in this respect and prefer large trees. Small trees have every advantage over the large ones: At the nursery they cost less; if procured from a distance the freight charges are less; besides they are more easily handled and planted; they are surer to grow; become sooner acclimated and adapted to the soil and make more healthy and vigorous trees.

After the trees are planted they may be mulched, or better, the ground about them should be kept cultivated for two or three experience at an American A heultural years.

It cannot be the high cost that keeps farmers from setting out more windbreaks, for small trees can be bought very cheap; such trees can be cheaply planted in a furrow where the ground has been previously prepared, and the after attention required amounts to very little, while the windbreak will soon pay for itself and increase every year in value.

Some farmers object to parting with arable land for such a purpose and fear the shade and robbing of adjoining crops by the roots of the windbreak. These are real objections, but of two or more evils let us choose the least and willingly devote the land necessary to the growing of a windbreak, which will so materially increase the profits from all other sources.



Some of the Advantages to be Derived from a Preparatory Course of training at the O. A. C.

G. C. Creelman, B. S. A., Agricultural College, Mississippi, U. S. A.

Being personally opposed to any radical change in the course of study at any college or University, it is almost with a feeling of reluctance that I bring before the minds of the students and graduates of the O. A. C. the sentiments conveyed in the title of this article.

"Mind rests by change, not by inaction," and we are able to accomplish a great deal more by resting our minds in this way, than by confining ourselves closely to one set rule. So very often a re-arrangement of work in a College course will enable both instructors and students to do more and better work than was performed under the old schedule.

That excellent work is being done in all departments at the College, and that the professors are diligently laboring in concert to further the aims of the institution, no one will deny, and it is only with the hope that the following suggestions may in a measure help them in their noble work, that I give your readers the benefit of my o years experience at an American A significant College.

Here the Collegiate work extends over a sulky rake and a spring tooth harrow. Agriculture, Horticulture, Book-keeping and for a year or two in some rural district. year, he takes up Chemistry, Geometry, Rhe- obtained in an American University. and deliver before the student body three ad-lying principles of agricultural science? Drawing, Chemistry, Physiological Botany, on a relatively equal footing, studied in turn.

Upon careful examination of the above plication for a diploma. It is then to our pressof a good high school near home. of young men, well ground in the primary to take the College Course." of Agricultural Science. compare this structure with man's own life, choose, renew the course the next session. we find that if we would rise high above our of science and art, before attempting to hold a graphy, United States history and agriculture. light to our brothers still groping in darkness. and substantial.

with instructors and graduates of similar instipresent course of instruction. On entering the College for the first time all students are hardly be other than the development of an The thrown into the same line of work. farmer's son, physically matured and several tion for the active and responsible duties of years out of school; the town or city boy just jeitizenship." in his teens, possibly having spent a year or two at a High School or Collegiate Institute, struction in agriculture is given by means of well versed in English Grammar, Arithmetic, an elementary text book, supplemented by Geography, Etomology, English and Canadian | occasional lectures on the subject by the pro-

course of four years. The student on entering have also a few older and more dignified apthe freshman class is introduced to such studies plicants, who have possibly obtained a teachers as English Literature, Natural Philosophy, certificate, and may even have taught school English History. In his sophomore, or second my class we had one man with an arts degree, toric. Drawing, Physiology, Agriculture and anything be more absurd than to throw this The next year he becomes a junior beterogeneous mass into one classroom and to and is duly instructed in Mechanics, Literature, expect them all to come out at the end of one Geology, Horticulture, Veterinary Science and or two years scientific and practical farmers, He is also required to prepare with a thorough knowledge of all the underdresses on industrial and scientific subjects, order for a professor or instructor to get the During the senior, or final year, such subjects best possible returns from his imparted knowas Political Economy, Zoology, Mechanical Jedge, he must have the members of his class This can best Civil Engineering, Advanced Agriculture and be accomplished by having the aspirants to a Constitutional Law, are each taken up and college diploma or degree all educated togeth-er before entering the regular college classes.

At the A. & M. College of Mississippi we curriculum of studies, it will be seen that the bave a "preparatory department," and I canstudent must have obtained some little pro- not explain its workings better than by quoting ficiency before entering even the freshman from our last Catalogue; "This Department It is required that the student obtain at , is designed to furnish a thorough elementary least sixty (60) per cent, in each study through education to young men, particularly sons of the entire course, before he presents his ap- farmers, who are deprived of the advadtages naratory department that we turn for a supply prepare for the freshmen class such as desire Course of branches that underlie the theory and practice Study:-The course of study requires only It is said of the one year for its completion. Eiffel tower that its base occupies many acres to complete it in that time will not be proof land, and if we carry out the simile and imoted to the Freshman Class, but may if they

T'e subjects taught are the following: fellow men, by reason of superior mental English grammar and composition, penmanfaculties and sound judgment, we must first ship, declamation, arithmetic, book-keeping, thoroughly master the elementary branches talgebra to equations of the first degree, geo-

Methods of Instruction: Instruction in all To build high, our toundations must be broad these branches is as thorough and as practical as the subjects will admit. Special attention Since leaving the College and associating is paid to composition writing by the students, in order that thereby they may acquire a cortutions, I see some disadvantages in your rect and ready use of the English language."

> "The result of such study, it is believed, can intelligent, patriotic spirit, and proper prepara-

During the first half of the fall term, in-History, cut unable to distinguish between a lessors of agriculture and chemistry. Throughby some professor or instructor especially quali- able to write good English." fied for that duty.

of our own graduates who have taken a good we find. stand during their college course and show a special aptitude for imparting instruction, branches, These young men, having their afternoons and evenings to themselves are able to devote a tering the Collegiate departments. good deal of time to some special line of work. They have the advantage over other graduates of being within reach of chemical and taking notes; have become familiar with dorbiological labratories. They also have the professors to assist them in their work. Thus when the President receives an application for a young man to go and take charge of, or assist, in any associated line of work in other colleges, he has always on hand someone whom he can conscientiously recommend to number of graduates, fill the position.

The O. A. C. has now graduates ouccupying positions in American Colleges, lecturing on biology, chemistry, dairving, animal husthinking that each of them would have been better fitted for his life's work, had he received a thorough primary training before taking up his specialty. Then after graduation if he could remain a short time at his Alma Mater rubbing off rough corners by association with more matured minds, gaining some worthy bility, he would be eminently better fitted for larts, to me the other day. man who can rise and express his views in a plied in a lordly tone. more to a community than half a dozen book- make very small figuring. an all-wise look. ment, will surely develop such a faculty.

be a general reliefall around and the President phrenology. "All theorists previous to phren-

out the greater part of second and third year would no longer have occasion in the circular terms two lectures a week on practical agri- to warn students of the third year that "it is culture and the selection, care and common necessary, above everything else, that the diseases of stock are delivered before the classes candidate know how to spell correctly and be

To sum up the advantages to be derived The teaching force is made up principally from an established Preparatory Department,

- 1. A better comprehension of elementary
- 2. Students on a more equal footing on en-
 - 3. A higher standard of Matriculation,
- 4. Students have become accustomed to mitory life and have learned something of the objects and aims of the institution.
- 5. The careless and indifferent students are sifted out and prevented from entering the College classes.
- 6. Employment is afforded for a limited
- 7. Boys who had never done practical farm work, would have a better opportunity for learning field work.
- S. The whole system of College work would bandry and horticulture, and I cannot help be toned up and the instruction be rendered more thorough and uniform.

Is Phrenology a Science?

(Miss L. Henderson, Guelph.)

"You know I do not consider phrenology a knowledge and shouldering a little responsi- science at all," said a teacher, a graduate in "Yes," I replied, In this age a man must be in- " what have you read about it?" " Oh I have telligible to be considered intelligent, and the read one or two papers on the subject," he re-One or two papers on straightforward, forcible manner, is worth the science of Physiology, Botany, etc., would worms, who sit still and adorn their visage with thought it sufficient to decide the most difficult Teaching primary students subject we have to deal with in the whole with an able staff watching your every move- realm of thought, viz., Mental Science, Human Character, Mind and Brain. Prof. Silliman. With a preparatory department some of the the learned Naturalist, Geologist, Scientific studies now taught in the college classes might | Writer and Professor of Chemistry at Yale be placed here; for instance arithmetic, book- College, New Haven, said of phrenology after keeping, composition and Fnglish grammar, a careful study of its principles: "Phrenology, This would leave a gap in the first year work, then, stands exactly like the other sciences of which could be filled with second year studies observation upon the basis of phenomena and In the second year again much of the third; their observed correspondence with a theory year work might be accomplished, for there is which is deduced from them." Prof. Alexanno doubt that too much work is now being der Bain, in his book, "Study of Character," crowded into the final year. This then would makes the following acknowledgment of

ology could not prove their principles by appeals to observed facts. They could not show a relationship existing between cerebral organs and the functions of the elementary powers they had analyzed in their own consciousness." Phrenology not only showed herself capable istry or natural philosophy, "While unacquainof doing this but she became the first and only science of character. Thus doctors differ and always will so long as brain fibre in quality, quantity and developments differ.

Now, Mr. Editor, I wish to state briefly in a series of papers in the REVIEW what phrenology is, what are its practical uses, and its claims to be called a science. Strictly speaking phrenology is a science of brain, because brain is the material organ and instrument of mind. us who are in the alesh mind must have a material medium, brain is that medium. think through brain matter, hence we can only study mind through bodily manifestations. This is just where phrenology differs from the older systems of metaphysics and philosophy. They consider mind in the abstract -deductions from personal consciousness where each mind taught its own method of thought, its own individuality hence the difference in the systems of philosophy and the opinions of philos-For instance Mr. Stewart, Scottish ophers. School, says "The moral sentiments are inate original faculties." So we carry our conscience with us. Mr. Paley says per contra: "Utility or the happiness of mankind is the basis of the sense of right and wrong." Each one reasons from his own standpoint and having differently constituted mental organs, or brain, does not agree.

Now phrenological philosophy is inductive and founds its principles on physiology, tracing through the brain how the mind is related to the body, and how mind works through its tangible medium the brain. Phrenology demonstrates that as one has organs for hearing, seeing, smelling, etc., he also has organs for loving, hating, hoping fearing, reasoning, acquiring, etc., and in accordance with the degree of development of the cerebral organ, the brain, is the strength of mental power, "a sound mind in a sound body." Metaphysics declares, after you have laughed, talked, disputed, acted in your different capacities of business man, society man, domestic man, etc. I may obtain the data which will enable me to judge what sort of person you are. Phrenology says: Let me have a good look at your head and your general physique and I can on the spot describe your character and also Editors gratefully acknowledge the receipt predict your intellectual, moral and social of some very superior wedding cake.

power. "The science of phrenology is based upon observation," says Dr. Jacques, principles are simply the recital of truths which lie open before every man's eve. therefore as capable of demonstration as chemted with it I scoffed at the new philosophy of the mind by Dr. Galt, known as phrenology, but have become a zealous student of what I now conceive to be the truth, and have lived to see the true philosophy of the mind establishing itself wherever talent is found capable of estimating its great value," says Sir G. T. MacKenzie, President Royal Society, Edinburgh,



W. G. Birdsall, A. O. A. C., '88, is taking a course at the Toronto Veterinary College.

S. R. Bayne, A. O. A. C., '88, is working on the South Forks Ranch, near Pincher Creek, N. W. T. Mr. Bayne intends investing in a Ranch of his own this year.

We are pleased to hear that our former local editor, Mr. J. C. Havris, has arrived safely in British Columbia, He is now working with Mr. P. B. Johnson, '90, of Somenos.

W. H. Pethick, '83, is practising veterinary at Cape Traverse, Prince Edward Island, Mr. Pethick took unto himself a wife some time He is doing a good business around his ago. district.

Already one of the leading students of the '90 class, recognizing the fact that a single life is not without its drawbacks, has embarked on the sea of matrimonial bliss. On the 24th of December, Mr. John Harcourt, of St. Ann's, Ont., was united in marriage to Miss Kennedy The marriage took place of the same place. in the afternoon, after which the happy couple left for London, Ont., where they spent their honeymoon. We wish Mr. and Mrs. Harcourt a long life of happiness and prosperity and we would strongly advise all ex-students who are in a state of single blessedness to follow the same course and marry if possible.

Sturge has been very successful as a practitioner in the States and will, no doubt, be equally successful as a professor.

C. Elton, A. O. A. C., '88, is Ranching with his brother near Pincher Creek, N. W. T. They breed chiefly horses, cattle and pigs, and recently imported three Herefords from F. A. Fleming, Weston, Ont., and a Holstein bull from Smith Bros., Churchill, Ont. Mr. Elton asks to be remembered to the 'SS class, and wishes the REVIEW success.

G. C. Creelman, B. S. A., of the Agricultural College, Mississippi, spent his X mas this year with Prof. H. A. Morgan, B. S. A., '89, in Baton Rouge, La. He reports that Mr. Morgan looks well and is discharging with dignity and ability the many duties connected with the Departments of Entomology and Horticulture at the Experimental Station. Mr. Morgan has recently issued a well written bulletin on the "Screw-worm," which will be thankfully received by all who are troubled with this pest.

We regret that our esteemed friend, F. C. Webster, A. O. A. C., '90, of Creemore, Ont., who took a special course last term, left us at We miss Mr. Xmas never more to return. Webster in more ways than one, he was a leading man in all sports, inside and outside the college, while he took an active interest in the Literary Society and in all matters appertaining to the college course. He intends starting farming on his own account in the spring and by combining theory with practice we feel sure he will carry on his business successfully.

We are pleased to note that J. A. Craig, B. S. A., '88, who has been editing the Live Stock Journal for the last two years, has been appointed professor of animal husbandry at the Wisconsin Agricultural College. Journal has been wonderfully successful under Mr. Craig's able management. Although we feel that his departure from Ontario will be widely felt by the farming community, we cannot but congratulate the Americans on getting such a thoroughly practical as well as scientific man.

Many of our ex-students have taken a leading part at the Farmers' Institutes this year.

The friends of E. Sturge, V. S., '86, will be Prof. Dean, C. A. Zavitz, G. Harcourt, F. J. glad to hear that he has been appointed Pro-; Sleightholm, and T. Ravnor read papers at fessor of Veterinary Science in the Dakota many of the Institutes and all of them were Agricultural College, at Furgo, Dakota. Mr. favourably mentioned in the papers, having handled their subjects in a way highly creditable to themselves and also to their Alma Mater. We also notice that A. Shantz, B. S. A., '90, and P. S. McLaren, A. O. A. C., '80, read papers at their respective Institutes. We congratulate these gentlemen on having done so well, also other ex-students who made themselves heard at the various Institutes. We hope the time is not far distant when the exstudents of the O. A. C. will take these Institutes entirely in hand and then the farmers of Ontario will see what sort of men the College can turn out.



Hor buttered toast during the holidays.

WHERE'S Job? Job, why milking of course.

R. J. PHIN, silver medallist of '81, spent an afternoon at the College recently.

STRANGE, isn't it, that the want of gas should cause a gthjas-tly darkness?

THE skating was good about Xmas time, ask Palmer and Wilkin if the water was cold then; they know.

Wity can a certain 1st, year student be heard a long way? Because he is a loud 'un (Lowden) of course.

ALTHOUGH a certain 1st, year man has persistently over-Eaton himself, ever since his arrival here, he gets no fatter.

This year, as well as last, Buscarlet carries off the palm for the neatest room in the College. Bealey makes a close second, however,

Pror.—" The bird that gets the worm should not mind getting up early, but how about the early bird that gets left?"

THE following notice is to be seen on Mr. Grey's door:

DUNS AT OTHER DOOR, PRESUNCE OF TAILORS NOT REQUESTED. MR. F. W. GREY. VISITORS' ENTRANCE. THETOTAL SMOKING ALLOWED.

A GREAT improvement in the dining hall is neat wooden shutters in place of those dilapidated and untidy looking structures, which up till now have adorned (1) the windows.

MR. MURPHY wishes us to announce that his skating rink in the bullshed is now ready. We expect to see a large attendance as the ice is kept in first-class order by being flooded every night.

Tir 3rd, year have been straggling back ever since New Year's day, looking strangely dissipated and tired, for men who are just returning from a quiet holiday.

RUMOUR reports that our old friend Faithfull, alias "Boots," was seen in Guelph on New Year's eve. As of old, he contemplated, have not yet lost their love-sick expression.

imperfections which may appear in his deligeneous collection, prominent amongst them nearly all his thoughts are in the "Ambi, charmers in various parts of this world. tions City."

A GREAT and necessary addition to the College, namely a hospital is now in course of construction. About half of upper Hunt st. the resuit.

THE following conversation was overheard; at the telephone recently. "Hello, are you Apparently the reply was: there doctor?" satisfactory, for we next heard. "Well, put a cold water, it was rapidly heated. This disblanket on your horse and stay there. And covery is thought by the College students to then the connection was rung off with unnecessary violence.

PROF. HUNT has left us for three months. We were all very sorry to see him go, for he termination of the Government to the contrary. has always taken a great interest in our foot-; ball, Y. M. C. A., and other College institutions. However he has left an admirable subconsoles us.

cultural College, who was here on January the result was a general stampede. 9th, expressed himself greatly pleased with He was loud in the praise of the stock, which he said were superior to fire, added his lusty voice to the unearthly din. fiattered by his words.

Up till now every O. A. C. graduate has of necessity been skilled in the ways of sewing on buttoms and darning socks. But now, through the thoughtfulness of Mrs. Craig, the students of this institution will no longer have to wield the darning needle nor don the thimble.

OUR old friend, Harris, is still alive. He reports that the agricultural problem he is now endeavouring to solve, is to find the most effectual way of preventing the pigs from upsetting the milk cooler in the creek. The equation is as follows: X pig 2 x milk-cooler 1120 x pig 2-milk. Who will be the first to solve it?

CALLING upon our dear friend "Picador" the world with his head on one side. His eyes the other day, we found him busily engaged in sorting his most valued treasures. Titi: local editor begs to apoligize for any gods and little fishes! but they were a heteropartment this month owing to an unhealed were some 30 or 40 handkerchiefs, which, we wound from capids dart. His heart and were informed, had been filched from his fair tiny pair of gloves, such as very few ladies could wear, seemed to occupy the place of honour in poor "Picador's" heart.

A NEW and larger boiler has been put in has been set apart, and really comfortable place of the old one. That is very nice; but sickrooms provided with bath, elevator, etc., is was it nice in consequence to be kept without hot water for three weeks? During the hot water famine a clever youth (2nd, year of course) discovered that by simply causing the steam from the radiators to pass into a jug of be the most important one since the time of Columbus, for by means of it we were enabled to wash and shave in comfort, yea even to have a warm bath, in spite of the evident de-

DURING the holidays the dining hall was the scene of a lively steeple-chase, all the stitute, and this, with the thought that his ab. members of the 3rd, year taking part in it. It sence is to be of short duration somewhat originated, we believe, in a challenge of Mr. $S \longrightarrow S$ to race anyone around the room. PROF. DAVENBORT, of the Michigan Agriwas gazing on the scene with astonished ever, being fully convinced that the place was on those kept at his own College. As the Michi. Some members of the 2nd. year took the opgan College of Agriculture is said to be the portunity to improve their marksmanship and best in the States, we cannot but feel highly seizing buns, doughnuts, etc., took flying shots i at the figures as they rapidly sped by.

appearance (at least he thinks so himself) was becoming confidential, equite a bit; when I driving a pair tandem in the city the other was stationed in Umbala I had 400 cavalry lently smitten by the attractions of her driver a dozen broken bones to set in one day, rethat she absolutely refused to go on, but turnesponsible work you know." "Ofcourse, then, ing around in her traces contemplated long Mr. Grey, since you are such an old hand, and ardently the young man's classic features, there is no truth in that vile slander which "You go on," but the animal replied, "Non- as the seat of spayin in the class the other sense. You come on," (Newcomon) see?

THROUGH some unaccountable oversight the names of the 3rd, year students have not been published. We apologize to them for our neglect and append them as follows: Buchanan, Cowan, J. H. Field, Holliday, Hewgill, Hutt, Linfield, Palmer, Sharman, Sleightholm and Whitley. We are tempted to print a short description of each of these heroes for the guidance of strangers, but forbear, only saying that if any of you are visiting this institution and should see a particularly dignified personage to whom the others pay great respect then know him for a 3rd, year 1113111.

As we stumbled along the dark corridors at night during the holidays, our craniums came into violent contact with radiators, etc., which caused multitudes of constellations to sparkle in the heavens, which enlightened our pathways and quite took the place of any artificial means of illumination. Although this system of lighting is economical, there are two serious objections to it. 1st. It is to be doubted whether we are fulfilling our mission in life when we serve merely as fire flies. 2nd. The light thus obtained is not sufficient to enable evenings, and, therefore, it is to be hoped that the same beneficient power that supplies the College reading room with papers will, before another winter, provide light enough to enable us to read them and thus be benefited.

special reporter strolled over to the "castle" to meet Mr. Grev in the passage. ever have much practical work?" "Well," Charing Cross, Ont.: 17 H.A. Hunter, Orange-

ON) of our students of especially attractive said Mr. Grey, yielding to the flattery, and The lead animal, however, was so vio- horses to look after, and would often have half Exasperated at last, our friend shouted out accuses you of pointing to the shoulder joint day." But here Mr. Grey hastily pleading an engagement disappeared, promising as he went to call and explain his peculiar views in the near future.

> Wiryr takes one of our undergraduates to Norfolk St. Church every Sunday evening? We notice that he is always down town excuse me, Arntown, I should have said the rest of the week.

> Mr. I ĸ No. I am not in love with a single girl in Guelph."

FRIEND "What! none at all?"

1 h 8 "None, none, no e, at least only one."

18r Stupryr "Do you believe in Placa ology;

"Yes, to some extent." 2ND STUDENT

"What is Phrenology any. 3RD STUDENT how?"

isr Stem vr. "A new kind of wheat," (and No. 3 believed him.)

Sri buxis at card party playing Whist,

ist Studien (Apologising to partner af ter atrocious play (" Awfully sorry, but that's what comes from trying to think you know."

2ND STUDENT (Augry) "Think, you idiot, us to make use of the reading room in the don't think at whist, but watch the game instead."

> The following are the results of the Christmas examinations:

First year tranked according to standing in general proficiency) 1 R. S. Shaw, O. A. C., Ir was for the purpose of interviewing one. Guelph; 2 L. G. Bell, Qu'Appelle, Assa, N. of our numerous local celebrities that our W. T.; 3 H. L. Beckett, Hamilton, Ont ; 4 A. McN. Soule, South End, Ont.; 5 J. E. Crealy, the other day, where he was fortunate enough. Strathroy, Ont.; 6 L. W. Eaton, Dartmouth, Mr. Grey N. S.; 7 T. J. Harley, Belleville, Ont.; 8 S. R. hospitably invited him into his room where Curzon, Kingston, England: o H. Story, Picthe first object that caught his eyes, was a ton, Ont.; to W. H. Harvey, Exeter, Ont.; (1) gracefully arranged array of femurs, it ias, D. Aylsworth, Bata, Ont., 12 W. A. Ruthven, patellas, etc., on the wall. "Why, Mr. Grey," West Essa, Out.; 13 C. Silverthorn, Summerexclaimed our representative, "you must be ville, Ont.; 14 C. S. Aylwin, Port Elgin, Ont.; an old and experienced veterinarian, did you 15 N. Gies, St. Jacobs, Ont., and T.B. Harvey, ville, Ont.: 48 F. C. S. Carpenter, Rat Portage, Ont.; 19 R. M. Copeland, Hespeler, Ont.; 20 B. C. Thomas, Toronto, Ont.; 21 W. W. Cooper, Kippen, Ont.: 22 A. Curzon, Kingston, England, and A. L. Kent, Toronto, Ont.; 24 J. Conn. Heathcote, Ont.; 25 W.R. Graham Belleville, Ont.; 26 H. B. Bealey, Toronto, Out.: 27 J. D. Housberger, Jordan Station, mental Universities which rank with Yale and Ont.; 28 W. Carlaw, Warkworth, Ont.; 29 A. R. Youill, Carleton Place, Ont.

Second year (ranked according to standing in general proficiency) at F. A. Wilkin, Calgary, N. W. T.; 2 R. N. Morgan, Kerwood, Ont.; 3 D. Z. Gibson, Willow Grove, Ont.; 4: W. F. Newcomen, Epping, England; 5 W. L. Carlyle, Chesterville, Ont.; 6 G. F. Marsh, scholars of the Brampton High School, Thornbury, Gnt.; 7 E. F. White, Clarksburg, Ont.; S.F. C. Harrison, Ronda, Spain, q.A.G. McKenzie, Fairview, Ont.; to E. C. Perry, Smithville, Ont.

The wrongs and privations of our mad poet who has just emerged from a stygian darkness of a month's duration have found expression in the following composition:

Light in the darkness, student, gas is at hand, See through the college halls fair Vesta's land. Drear was the darkness, student, now its quite o'er.

Safe within the lighted halls, bark your nose

CHORUS (Gas in the halls, student, gas in the

Heed not the holidays but lustily roar.

Safe in the lightness, student, stumble around

Leave those poor old coal oil lamps, and let the gas roar.

Trust in the boiler, student, it will not fail, Deeper the snowdrifts are and fiercer the gale; Heed not the stormy winds, though loudly they roar;

Our guardian Angel's got up steam, so nou he'll give us more.

Gas in the halls, etc.

Hot comes the water, student, thankful we CIV;

Cold and Shivers disappearing, shaving is

Safe in the bathroom, student, sing evermore, La la la la la li ce hoo, cold water's wer.

Gas in the balls, etc.

At the University of Pennsylvania a \$75,000 theatre is being creeted for the use of the students.



The Argentine Republic has two Govern-

The Ox? comes once more in all its gay and gorgeous plumage; the article which strikes us as being excellent is " Cowper in the Task."

We are pleased to have placed on our exchange list the Gazette, published by the

One of our new exchanges is the Business, from Peterborough, a monthly journal devoted to the interests of practical education and finance.

Resolutions protesting against the admission of women to Membership and Degree in the Cambridge University have been signed by 1,360 members.

To our "Printer's Devil;" Go tell your master to take good care that i be not mistaken for n, because that would be most innatural and unjurious."

O. A. C. OYSTER SOUP.

My busy days have now begun, I hardly rest a n iome: But when School dinner soap is served As usual, I'm not in it.

Again the Kansas Central Luminary comes It contains a great fund of interest to hand ing and instructive articles, which no doubt indicates the great interest taken by the students in the welfare of their paper.

A paper which we have not been in receipt of till very recently, emanates from the sanctum of Woodstock College. Perhaps the fault lies here. We think distance lends enchantment to the view," and always try to get our exchanges from the utmost limit. While we should cultivate this acquaintance with those who are far away, we should at the same time cultivate even more assidaously a nearer connection and establish a closer bond of union between the colleges of our own We therefore hope that from this time forth we may be in receipt of a regular, continuous stream of journals, not having an intermittant pause,

"But whose numbers with increase of ages grow.

As stream's roll down, enlarging as they flow."