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DURING a recent visit of Rev. Dr. Cody to the College, the students were privileged to hear the President deliver a short address in Creelman Hall.

In the course of his remarks Dr. Cody said, "Knowledge is a fine thing, but wisdom is better, for through it knowledge can be made use of." "But behind both of these lies character and it is this that we must seek to develop if we are to become useful citizens and enjoy a full, rich life."

Dr. Cody's words recall the statement made some time ago by an American professor in speaking on the inconsistency of our educated systems. "The success doctrine," the latter is quoted as saying, "means nothing more than win at your neighbour's expense." To prove his point he referred to "the history of the vicious influences of the stock exchange, the purchase for resale at pyramided prices, of commodities, both useful and useless."

If education serves no purpose but to instil the perverted golden rule, "do others before they do you" into the minds of the students, it is certainly not serving the purpose for which it was intended and is a detriment rather than an asset to any people.

Surely the goal of education should be to so broaden people's outlook that they develop that poise of character which Dr. Cody considers
of primary importance to human happiness. Surely no one can be truly happy and do anything useful in the world when he is constantly suspicious of his neighbour, whom he feels he must crush, or be crushed.

No lasting structure can be built without character and the great masses who are struggling to get ahead of one another in the race for success, are building a house of cards.

Success and happiness should not be measured by one's position in relation to others, but according to the advances one has made over himself. It is only when we look at success from this point of view that there will be room for ambition on the part of everyone, and if attained, it will be at the expense of none and to the advantage of all.

Our Light Under a Bushel

According to a leaflet issued by the Hon. Minister of Agriculture, the year 1932-33 was an outstanding one in the history of the College. No one who was present during that period will disagree with this, but at the moment it would require all the resources of a Scotland Yard detective to uncover the evidence in support of the Minister's statement.

Needless to say the College teams collected pieces of silverware in the form of trophies during their travels, that would form very conclusive evidence of their prowess, but, with the exception of the Saddle and Sirloin Cup, which the Department of English displayed for a few weeks in the Massey Library, these have been very successfully hidden from the profane gaze of students and visitors alike.

During the past year, the O. A. C. has received much favourable publicity, and earned a great deal of respect through the winnings of her student representatives, and it is only right that the College should recognize their efforts by giving their trophies a place of honour. It is the expressed wish of the Regina Team that their trophy be placed in the lobby of the Administration building, where it will be a source of pride to the students, and where it will bring credit to their Alma Mater in the eyes of her many visitors. This view is a very reasonable one, and, no doubt, one that is held by every person who has given the matter a moment's thought. Yet, where is this trophy?

Until the proper facilities can be provided for the care of the silverware in such a public place as the lobby, however, there is no reason why the trophies cannot be rounded up from their various hiding places, dusted off and put on display in the Library.
The National Research Laboratories

Division of Biology and Agriculture well equipped to serve Canada's Greatest Industry

by Dr. R. Newton

To understand the organization and work of the Division of Biology and Agriculture of the National Research Laboratories, it will be necessary to glance at the history and development of the parent organization. The National Research Council of Canada, like similar bodies in many other countries, came into being during the Great War, when it was realized that to achieve victory the mobilization of scientific resources was as important as the mobilization of man-power and other resources. At present we are passing through a period of stress scarcely less severe than we experienced during the war. A brief introductory note upon the organization and objects of the National Research Council will be helpful, therefore, in understanding the part it may be expected to play in such crises, and the particular place occupied by the Division of Biology and Agriculture.

The Committee of the Privy Council on Scientific and Industrial Research, which has the duty of appointing the National Research Council and controlling its activities, was first constituted by Order-in-Council on June 1, 1916. It consists of the Ministers of Trade and Commerce (chairman), Agriculture, Finance, Labour, Mines, National Defence, Pensions and National Health. Obviously this constitution was intended to facilitate consultation and co-operation between all federal government departments closely concerned with research problems. This Committee, when it appointed the National Research Council as its advisory body, proceeded along lines which insured representation by leading scientific institutions on the one hand, and by important industries concerned in research problems on the other hand. The object was to secure a united front and co-ordinated action in the prosecution of researches looking to the utilization of our natural resources and the development of Canadian industries and trade.

It is important to realize that the National Research Council, with its associated National Research Laboratories and various advisory and
research committees, is not simply another government department set up to deal with a restricted field of work distinct from and unrelated to that of other departments. It is rather the common meeting ground both of government departments and of scientific institutions, an agency for pooling the ideas of the best scientific minds in the country in the organization and prosecution of research on national problems.

The Council has, from its inception, followed consistently a policy of promoting and aiding research on problems of national importance, wherever found, by all available means. Its efforts over a period of sixteen years have built up a national structure with four main features:

THE NATIONAL RESEARCH LABORATORIES
At the junction of the Ottawa and Rideau Rivers
Photo by Royal Canadian Air Force

(1) The man-power available for research in Canada has been greatly augmented by 588 scholarships to 350 picked students, of whom 183 completed the doctorate in science. This obviously is the foundation of the structure.

(2) The resources of existing laboratories, particularly in the universities, have been utilized much more fully, by grants to experienced investigators which enabled them to multiply their efforts by engaging research assistants and purchasing special equipment.
(3) Problems so large or complicated as to be hopeless of successful attack by isolated individuals, or even by institutions acting alone, have yielded to co-ordinated attacks organized through committees representing all the institutions concerned. Some thirty large researches have been developed by this method, of which as examples of the diversity in the fields covered may be mentioned: magnesite, wheat rust, tuberculosis, laundry, utilization of waste gas, wheat drying, weed control.

(4) The final stage in the development of a national research structure was the provision of national laboratories at Ottawa, for carrying out investigations which required more extensive accommodation and elaborate equipment than could be conveniently provided by one of the universities, or which had to do with a national industry not the particular concern of any one of the universities—in short, investigations which for any reason seemed better done in a national laboratory than in a local or provincial institution.

In addition to the Division of Research Information, which is responsible for the library, for the publication of the Canadian Journal of Research, and for dealing with technical inquiries which can be answered by published information, there are at present three laboratory divisions: (1) physics and engineering, (2) chemistry, (3) biology and agriculture. Other divisions may be added as the need develops and circumstances permit.

With the exception of aeronautical engineering and the workshop, which are housed a short distance away, all divisions are accommodated in the splendid new laboratory building which appears prominently in the centre of the accompanying photograph. Planned in better times, both as a worthy home for the laboratories and a building which would fit appropriately into the general scheme for beautifying the federal capital, this building has since the advent of "hard times" provoked considerable criticism as unnecessarily large and expensive. There is no doubt, however, that time will vindicate the wisdom of the builders, and that the value of the work done within its walls will repay its cost to the country many times over.

Pending the erection of the new laboratories, temporary accommodation was fitted up for the Divisions of Physics and Chemistry in existing buildings on the National Research Council property. The Division of Biology, however, had already established close co-operative relations with various universities, especially the University of Alberta, which institution had built a new laboratory largely to accommodate
this co-operative work. It was considered better to continue the pro-
gramme of biological research on this co-operative basis until the new
building at Ottawa was ready. It was not, therefore, until the summer
of 1932 that this Division attained a corporative existence at Ottawa,
and since this date coincided with a low point in the economic de-
pression, it was possible only to establish a nucleus of the laboratory
staff originally planned. Nevertheless, good progress has been made
in developing a programme of research on biological problems funda-
mental to agriculture.

Accommodation in the laboratories, so far as it is available, is open
to qualified workers from other institutions who may desire to pursue
their investigations for a time with the aid of the special facilities to
be found here. The Division also holds itself open to co-operate in,
or to undertake, special investigations on important problems which
may be brought to its attention from time to time by qualified bodies.
In addition, it is intended to carry on a systematic programme of
fundamental research on biological problems of national significance.

A tentative initial programme was submitted on June 9, 1932, to
the Associate Committee on Agricultural Research, an advisory body
which includes in its membership the heads of agricultural colleges and
representatives of the Federal Department of Agriculture. This pro-
gramme consisted of a number of fundamental studies which had grown
out of projects fostered by the National Research Council in the past.
They were for the most part problems which had been forced upon
our attention because of their importance and which had so far received
comparatively little attention from investigators in this country. A
more comprehensive programme will be developed in due course, but
the notes which follow refer to parts of the initial programme.

Just as in nature there are no hard and fast boundaries, so research
projects by no means always fall within the scope of a single so-called
scientific department, such as botany, bacteriology, etc. The work is
therefore being organized, not by departments, but by projects, to each
of which will be assigned workers with the necessary special training.
Undoubtedly many projects will require co-operation with other
divisions of the National Research Laboratories.

The first project on the tentative programme is the development of
apparatus and methods for plant growth under completely controlled
conditions. There are a great number of problems at the very basis
of crop production, the complete solution of which cannot be reached
until we are able to control conditions fully. A plant growing under
natural conditions is affected by many different factors, and of course
the first principle in experimentation is to observe the effect of a given factor while keeping all other factors constant. Under the best field conditions, this ideal can be only somewhat distantly approached.

With apparatus for completely controlling conditions it will be possible to study the effect of light, temperature and other climatic factors separately, not only on the total yield of the crop, but on its chemical composition and nutritive value, including the content of vitamins. Here the animal houses on the roof of the new laboratories will come into play, and the plant material grown under controlled conditions will form the starting point for a series of fundamental studies in animal nutrition, with small animals.

PAIR OF CHAMBERS

(Left) for growing plants under controlled conditions, with air conditioner (right) in the National Research Laboratories.

The accompanying illustration shows the first pair of chambers installed in the National Research Laboratories, for growing plants under controlled conditions. At the right of the photo there is seen an air conditioner, in which fresh air is drawn through a fine water spray at some selected temperature, thus saturating it with moisture at that temperature and setting the absolute humidity of the air in both plant chambers. The relative humidity in the plant chambers depends, however, on the temperature to which the air is raised after
leaving the conditioner, and this can be controlled independently in the
two chambers by heating devices in the flues leading from the con-
ditioner to the chambers. The stream of air, thus conditioned in two
stages with respect to moisture and temperature, enters the chambers
through the bottom and passes out at the top, at such a rate that no
appreciable change takes place while it is in contact with the growing
plants. The composition of the air can be altered, if desired, by
introducing carbon dioxide or other gases into the stream before it
enters the chambers. Artificial light shines through a distilled water
screen at the top of each chamber and the chambers are completely
lined with polished monel metal to insure good reflection and diffusion.
This first pair of chambers is being used for preliminary tests which
will be made the basis for modifying as may seem desirable the design
and construction of further pairs to be built later.

The study of the influence of factors of the environment on plant
growth and composition will not of course be limited to climatic factors,
but will extend to soil factors as well. With the equipment described
above it will be possible to hold climate constant while varying certain
soil factors at will, thus sorting out their different effects.

Closely related to this will be a study of the decomposition of
plant residues in the soil, and of the effect of the decomposition products
on the growth both of crop plants and of the micro-organisms which
are so important in the soil. Many of these organisms are beneficial,
bringing about the decomposition of crop residues and ensuring a supply
of soluble nitrogen to the growing crop. Others are parasitic on crop
plants, sometimes doing serious injury to the roots and other parts of
the plants. It has already been shown that some of these organisms
flourish particularly well in the presence of the decaying roots and
stubble of certain crops and much less under other crops. To the
question, why? there is as yet only a partial answer or, in many cases,
no satisfactory answer at all. In the proposed studies an answer will
be sought, and it is hoped to get at some of the fundamental principles
of crop production, for example, why a particular sequence of crops
in a rotation gives better results than some other sequence does.

Another group of problems listed for further attention concerns
wheat, the crop upon which the prosperity of western Canada, and
indeed of the whole country, so largely depends. The Associate
Committee on Grain Research has done, through the co-operation of
the universities in the prairie provinces, the federal Department of
Agriculture and the Board of Grain Commissioners, a great deal of
work on such important practical problems as the drying of wheat,
the quality and grading of frosted wheat, and the relative quality of the principal wheat varieties grown in western Canada. That Committee is continuing to investigate, through the same agencies, similar problems as they arise.

The Division of Biology and Agriculture is supporting the programme of the Grain Research Committee by further work on the standardization of experimental milling and baking, with the object of mechanizing it as completely as possible, so that results may be reproducible in different laboratories. Methods for estimating the quality of wheat with very small samples are also being further investigated, with a view to facilitating the work of plant breeders in testing new hybrids as promptly as possible. Other wheat researches under way include studies on certain physical properties of the gluten proteins, and on the effect of soil type and nutrition on the absorption and distribution of nitrogen in the plants and grain.

The increasing competition for wheat markets, consequent upon over-supply, makes it more than ever important to produce in Canada only wheat of the highest quality which will create its own demand and command a premium on the world market. To obtain a better understanding of how buyers in importing countries reach their conclusions as to the value of suitability of different wheats, a survey is being made of baking methods in different countries. It is desired to give our wheat producers in these difficult times all the aid and guidance which scientific inquiry can afford.

The fundamental nature of certain inherited characters in plants is another problem listed for further investigation. The plant breeder must at present be content with saying such characters as frost resistance, drought resistance, or disease resistance, which a plant possesses, are the result of inherited factors which he calls factor A, factor B, and so on. He juggles these factors like real entities in his cross-breeding work, but without knowing what chemical or physiological processes in the plant really lie behind them. In the three cases mentioned we have made considerable progress in showing what it is which makes a plant resistant to frost, drought or disease. There are other inherited factors which it would also be interesting and valuable to investigate. The more complete is our knowledge of these things, the more directly are we able to proceed in overcoming difficulties and in producing superior plants.

Sterility in plants is a problem which has engaged the attention of many investigators, but of which the solution is not yet in sight. The irregularity or uncertainty of seed-setting in alfalfa has greatly increased the hazards and reduced the profits of the alfalfa seed-growing industry.
Producers of oats almost everywhere have been concerned by a large proportion of sterile, "white" spikelets which often appear in this crop. In horticultural plants the problem is perhaps most widespread. It would seem that the conditions which lead to sterility must be clearly defined before we can make much progress in overcoming it, and the preliminary steps have been taken to attack this problem.

The first units of a refrigerating plant have been installed in the new laboratories, and when the installation is complete it will afford ample facilities for further work on frost resistance, or for any other problem requiring low temperatures. The cold storage of food products is being investigated for the Empire on a large scale at Cambridge and other places in England. If we enter this field it would therefore be to investigate some problem of peculiar significance to Canada, and the work would be done as part of a programme planned in concert with both English and Canadian institutions. In the meantime, the refrigerating units already installed are being used to supply cold air for tempering the atmosphere in the chambers where plants are grown under controlled conditions, and for various experiments in which material requires to be kept cold.

Still another type of work which is under way, and which it is expected to continue, is the statistical investigation of agricultural problems. Often in the course of experimentation a great mass of observations accumulate, the meaning of which can be fully extracted only by a statistical expert who can devote a great deal of time to it. A case in point is the records of a large series of experiments on rates of seeding different varieties of oats, carried out co-operatively by the Federal Department of Agriculture and a number of Universities, under the Associate Committee on Accurate Plot Work. Because of their bulk, these records lay comparatively unused for a number of years, until they were taken in hand recently by a statistician of the laboratory staff, who analysed them and prepared a report. There is a great deal of published data which could be utilized more effectively by further study of this sort. Special attention is now being given to the relation between crop production and climatic conditions, as revealed by a statistical analysis of yield data accumulated by various experimental stations in Canada and weather data in the records of the Meteorological Service of Canada.

Space forbids further detailed reference to our programme of research. It is intended, not to duplicate, but to extend and support the work of other institutions and departments, especially by fundamental studies on

(Continued on page 110)
"Farmer's Glory" In Review

A Story of Great Interest to those who Appreciate the Joys of a Rural Life

by E. C. McLean

Canada lost a valuable immigrant when A. G. Street, then an unknown boy of twenty-one, was forced to return to England on the outbreak of the Great War just three years after his arrival in Manitoba and was never able to return, as he had hoped, to settle down on a half-section of our Western farm land. His book, "Farmer's Glory," which has been in the O. A. C. library about six months deserves the attention of everyone interested in agriculture and human nature—and that should include us all. It can be read merely for its amusing incidents, which are many and well told. It can be read for its account of farm practice and farm life in England twenty-five years ago, in pre-war Manitoba, and in the rapidly changing England of to-day. It will be read by the discerning for its story of a man wise enough to admit that he has been a fool, wise enough to learn from experience, tolerant and successful because he has been willing to try new methods and to work harder and live more simply than his father ever had to do. As a boy he was graduated from an English agricultural school; his post-graduate work had been taken in the school of experience.

Some readers of the book who do not see any too clearly the glory of farming to-day may feel that they could see it as a glorious occupation indeed if they were able to sleep in regularly till 9:00 a.m., have three or four afternoons or whole days off a week for sport, and yet make a 700-acre rented farm pay. That is just what the author's father did in "the spacious days" of farming twenty-five years ago in southern England. It makes interesting reading to-day and is made still more interesting by the contrast in the latter part of the book with the conditions on the author's present-day dairy farm. There are no holidays. He rises at four a.m. to milk 100 cows (by machine) and get the milk over to a neighboring town for retail morning delivery. His truck replaces his father's thirteen horses. His farm is about half the size of his father's. He has two hired men; his father had twenty-three regulars all the year around with additional help at busy seasons.
Such contrasts are skilfully presented and add to the interest of the book. In the early section we have the leisurely life on the big farm with its abundance of cheap labour. No wonder that the author's boyhood memories are of sports, hunting and fishing, not of work. The skill, independence, proverbial wisdom and conservatism of some of the old labourers who had been attached to the farm all their lives is fairly and amusingly presented. The annual Fairs where 70,000 sheep were sold and where labourers sought new jobs for the ensuing year, and the Harvest Home Festival, a real "home" festival for the farmer's help, recall scenes from Thomas Hardy's novels telling of English conditions one hundred years ago rather than anything which we know in Canadian agriculture. Then comes a period of hard work as the boy becomes acting manager of his father's farm, followed soon by a period of still harder work on a Manitoba farm where he is no longer a purely nominal supervisor, but is the sole hired man. Hard as was the work, and rude as were the living conditions in the one-room bachelor shack where pyjamas were used only as winter underwear, and the supply of fresh meat was stored frozen on the roof throughout the winter, and where the writer learned to cook by cooking - - his agricultural school unfortunately had not taught him domestic science - - in spite of this, and though he had but scant opportunity for society or amusement, he was happy. Never, he says, has he been so contented either before or since. And his description of the delights of ploughing virgin prairie is almost a poem.

Then comes the final contrast in the account of English agriculture during the war, when everything was sacrificed to the growing of grain, followed by the deflation which the industry has gone through since the war-time boom collapsed entailing, as it did so, a decline of seventy-five per cent. in farm values. We have not yet heard of the N. R. A. in the United States setting up a code of hours and wages for farm labourers, but in England such matters are fixed by governmental decree and add to the farmer's difficulties, but are sometimes a source of amusement. In one instance when the author kept on, as a favour to the man himself, an old employee of his father's at a rate which the old man himself had fixed and to do only work which he wanted to do, such an act of kindness caused a visit from a government inspector and the holding of a Board of Enquiry. The sitting of the Board was a brief one, for the old man when questioned rather indignantly told the Board that as he had looked after himself all his life he felt that he knew better than any Board how many hours he should work and what wages he should receive. Visibly impressed by the old man's independent spirit the members of the board felt that he was right and
issued him a special permit. In spite of this and other handicaps the experience of the author shows that a man with enterprise and initiative who plans prudently and is willing to work hard and to persevere can make a success of specialized farming under the new conditions of to-day.

A friend told the author that it was “useless for a farmer to try to write a book, as he is almost sure to leave out the things which are most interesting to the general reader.” This statement certainly is not true of Mr. Street. From the beginning to the end of the book he shows the ability to select not only what is of interest to an agriculturist, but also those scenes and incidents which have the widest human interest. Very early in the first chapter we get the following brief but adequate picture of an old “digger” employed in rabbit hunting:

“Ted was a cheerful soul. He suffered from some form of bronchial catarrh, but he was a fine digger and drinker. He would cough, dig, spit, dig, swear, dig and spit, in one continuous stream.”

We have specimens of the old songs sung at the harvest home festivals:

O, I’m a breastin sort ov a chap
Me father comes from Shareham
Me mother got some more like I
She knows well ow to rear ’em
O some they call me bacon vance
An’ others turmut ’ead
But I’m as clever as other volk
Although I’m country bred.

I can drive a plough
Or milk a cow
O, I can reap or sow
I’m as fresh as the daisies in the fields
And they calls I Buttercup Joe.

And perhaps best of all we have the story of Granfer and the General. An old labourer, retired from active service, undertook to tell a new proprietor of the farm, who was a General, how silly he was to put up chicken houses in a valley that had frequently been flooded. But the General had new arrangements for controlling the water levels and when the old man insisted on continuing the argument rather rudely before the assembled workmen, the General told them to go ahead as Granfer was but a silly old fool and an anachronism. Unfortunately Grandfer overheard this.

(Continued on page 94)
Rhodes Scholar Travels Hudson Bay Route

W. J. Garnett Enjoys Unique Passage to England

(Montreal Gazette) October 5, 1933

A DVENTURE along the Hudson Bay route to Europe was sought last month by a young Canadian from Guelph, the first paid-passenger to sail from Churchill, who sought and obtained many experiences on his odyssey to Oxford.

The story of this man was told yesterday by Captain A. Taylor, master of the S.S. Thomas Walton, which sailed at the end of August from the Manitoba seaport for Rotterdam and is now discharging rye in Montreal. Captain Taylor himself is of an adventurous turn of mind, having a distinct preference for the risks associated with the northern shipping lane to the world’s well-known trade routes. When, therefore, a young man requested transportation from Churchill to some European port, and displayed like characteristics, he was taken aboard.

"I saw we should be friends, so I charged him as little as possible to cover his messing and signed him on as assistant steward to comply with the law, then showed him his cabin," the Thomas Walton’s master explained.

"He was sitting on a case of Bull-Dog stout tallying cargo out of a ship at Churchill when I first met him," the captain continued. "He came to Canada’s northern port to book passage as a result of a letter from his friends in Montreal, and was awaiting us. As we shook hands, he looked me straight between the eyes, and I saw he was satisfied I should be safe to travel with. I asked him why he did not cross from Montreal. ‘I want a new route. I want to see the trail that Hudson and Fox made and particularly I want to see some real icebergs. I believe there is a chance, too, of sometimes seeing walrus and seals on the ice and possibly a polar bear.’

"His optimism was infectious," Captain Taylor observed. "I was examining his passport when he remarked: ‘The beaten tracks of travel lie close beside the wilderness. Why follow the crowd?’ You have read Teddy Roosevelt. I said, and his face lighted up. ‘Rather!’

"Why go to England at a time like this?" the master asked.
"Because I am offered an opportunity to go through a course at Oxford University and I am keen to do so," was the reply.

"Some American bug-hunters living in a tent at Churchill and examining cattle ticks and bird fleas attracted him. He talked to them as if he had known them all his life. An old stone fort near the entrance to the harbor appealed to him so he crossed the river and investigated, even wading up to his knees in an ice-cold pond to examine some moss on the surface. He stood for hours with a pair of binoculars glued to his eyes watching birds in flight.

"On the evening of our departure from Churchill, he wrote in his diary: 'The ship was followed out of port by Artic Terns and Herring Gulls. Seventeen miles out, saw a Skua chasing a Tern, probably to make it drop a fish. The Tern escaped easily. At dusk the ship was joined by an immature Pigeon Hawk.'

"At daylight the next day he was climbing along some awning spars within a few feet of the hawk, to which he was cooing and feeding it with raw meat," the master said. "He came down to breakfast all smiles and remarked that we might manage to keep Ned Kelly with us for the passage. Ned Kelly was the Pigeon Hawk, which he assured us he had fed and stroked.

"Ned remained with us a week. He watched the cook cut up meat in the early morning and then hopped down to pick up stray pieces. He watched the passenger placing dainty morsels of red steak on the tops of ventilators and along the awning spars. He rubbed his beak along the dewy ridges of the deck in early morning and drank his fill of nectar. He soared aloft when the whistle blew and flew around the ship. He took his afternoon nap on a warm perch near the funnel and at night crouched beside the mast-head light. Then, to our regret, one morning he was missing. The wind had blown strong all night and our Canadian passenger assured us that Ned had gone down wind to Cape Farewell in Greenland. We hope he did," said Captain Taylor.

"While passing a large iceberg fairly close in Hudson Strait, we saw eleven walrus all crowded together at its foot. Noticed one as if he were the old man of the tribe. When the whistle blew he raised his head, showing two gigantic tusks. He was a noble looking warrior. None of them seemed in least afraid. Our passenger commented on the architecture of the 'bergs, of which there was an endless variety. One in particular appeared to be part of the mainland broken adrift. It was fifty feet high. A rough calculation gave us an approximate weight of 200,000 tons of ice." When I remarked that I had paid forty dollars
a ton for artificial ice in Mesopotamia on one occasion, our Canadian passenger started talking economics.

"As we emerged from Hudson Strait within sight of Resolution Island, I said: 'Well, you have seen everything you came this way for except the polar bear.' Strange to say we intercepted a message the next day from Resolution stating they had shot one from the wireless station," the master observed.

"After passing through the Pentland Firth and on approaching Rotterdam, our passenger began to pack. We had all become much attached to him. It seemed almost as if we had picked him up in the Atlantic. Was his nature typically Canadian? or, was it a nature his mentality had developed through converse with the birds and animals of the prairie. Why did Ned Kelly associate with him so freely and without fear? How was it the American bug-hunters began to talk to him as soon as they had looked at each other? . . . The beaten tracks of travel lie close beside the wilderness! The joy of living is his who has the strength to demand it! . . . In the complex philosophy of the sailor it is decreed that he who proves a good shipmate shall be given a good send-off, and our young Canadian passenger got one. His face shone with a ruddy glow and his eyes sparkled as we waved good-bye to where we could just see his face in the middle of a boat-load of unstrapped luggage."

"We leave the young Canadian now at Oxford," the skipper concluded, "and wish all the best for him. That smiling optimism will stand him well as he gets older. We have need for such as he in this weary and dejected world. Oxford will appreciate him. We hope it will not take away that fearless outlook on life with which Canada has endowed him and, above all, that faith in men which made him so attractive to us. He was a good shipmate."

"FARMER’S GLORY"

(Continued from page 91)

"Silly owd vooil, be I?" he screeched. "Nackernism too. Wot be you? I'll tell 'ee. A b - - y vooil, thee bist. Furriner too. Thee keep hens down yer, an' they'll ha' to turn into ducks, er drown. General thee bist. Well, all I says is thank God we got a navy. Thee't want 'em too, to rescue they vows come winter."

The complete story is much too long to tell here, but although Grandfer had to wait two years for his prophecy to come true, come true it did, and the old man rose from his death bed to go out and see with his own eyes its fulfilment.
LITERARY SECTION
Tom Bell '34

English Sculptress at the College

An Interview with Miss Jacobine Jones, an English Sculptress who is making Life Studies of Domestic Animals at the College this Winter

ST. JOAN

"How did you first learn about this College, Miss Jones?"

Miss J. J.—"I told Mr. Elliott, the Director of Colonization, that I was looking for models for my studies of domestic animals. He suggested that I should come to Guelph and look over your pure-bred
stock here. I am very grateful to him for his kindness in helping me to this opportunity of having such excellent material to work upon. I must also express my gratitude to Dr. Christie for his permission to model the College animals and to Professor MacLennan for the use of this ideal room as a studio.” (Miss Jones has a studio on the top floor of the Horticulture Building.) “Professor Steckley and the staff of his department are giving me invaluable help both through their profound knowledge of animals and by giving critical comment on my work. The interest shown my work by the attendants in the stock barns gives me daily encouragement.”

“When did you first take an interest in sculpture?”

Miss J. J.—“I began to study at the Art School of the Regent Street Polytechnic in London, England, under the direction of Professor Brownsword, to whom I owe all I know about sculpture.”

“Have you exhibited any of your work?”

Miss J. J.—“Yes, in 1929 at the Liverpool exhibition and in 1930 and 1931 at the Royal Academy in London. I have also sent work to other exhibitions in London, Scotland and the provinces.”

“Which of your pieces did you exhibit, Miss Jones?”

Miss J. J.—“Three equestrian groups: one of three horses for bronze entitled ‘Corn;’ one carving in Roman stone, ‘St. Joan’ and a carving in black marble called ‘Black Cavalry.’”

“St. Joan,” which was bought by the City of Glasgow Corporation, is now permanently exhibited there. Its quiet, beautiful, dignity and peace make it a worthy tribute from an English woman to the heroine of France. “The Black Cavalry,” depicts a Numidian warrior mounted as in one with his spirited horse,—force, power and all a savage fighter’s fierceness is here expressed in beautiful simplicity in the shining black stone.

The two sides of this work give rise to widely different but, at the same time, corresponding reactions. The right side where the rider is exposed, sword in hand, the strength of every muscle of his neck blending with the dynamic form of the head of his steed, expresses “a rhythm of force and energy.” The left side, where the shield and cloak hide the rider and the head of the horse is turned away, represents the caution and instinct of protection in a primitive man.

The group of four greyhounds in full race tells the whole story of speed, lightness and elegance of this breed.
"I understand that you won considerable distinction at the school."

Miss J. J.—"Yes, I won the gold medal awarded for the best work of the year."

"Which work do you find the most difficult?"

Miss J. J.—"The carving in black marble, such pieces as the 'Black Cavalry.'"

"How long does it take you to complete works such as these, Miss Jones?"

Miss J. J.—"'St. Joan' took three months and the 'Black Cavalry' six months."

"Did you do other work at the same time?"

Miss J. J.—"No, I concentrated on the carving of each until I had it finished. 'St. Joan' was the first carving I ever did and it probably took me longer than it would now that I have more experience, but
the 'Black Cavalry' would take me as long or longer to do again, because black marble is one of the most difficult stones to carve."

"What is your general procedure in making a life study of an animal here at the College?"

Miss J. J.—"I measure the animal, decide upon a scale for the model and put up an armature. This armature is a supporting skeleton made of copper wire supported by irons fixed into a wooden base. The modelling clay is packed on this skeleton and gradually formed with the hands into the shape of the animal. For the finishing, small tools of wood and wire are used.

"When the clay model is finished a mould is made by coating it with a thin layer of Plaster of Paris. The mould is made in several parts. When the mould is dry the clay is removed. The surfaces of the mould are now given an oily coat by lathering with a soap solution. The parts of the mould are then assembled and a framework of iron rods and wires supports the structure. A second paste of Plaster of Paris is then poured in to fill the mould. When this plaster is dry, the mould is removed with a chisel and mallet—the plaster cast is then ready for the bronze founder."

"How big a part do you consider that inspiration plays in an artist's work?"

Miss J. J.—"I believe in the old maxim, 'one part inspiration to nine parts perspiration,'—there is no short road. Talent alone is unavailing—unless it is supported by perseverance, hard work and sound knowledge. The longer one practices, the less one feels one really knows."
“Do you believe that you inherited your talent?”

Miss J. J.—“My mother was Danish but I do not know that there have been any artists in my family, either on the English or the Danish side.”

“Are you working on any other compositions apart from the animal studies?”

Miss J. J.—“Yes, I hope to finish a garden group, a small fountain group and an equestrian group by the Spring.”

“Do you find that many of the people that you have met here appreciate your work?”

Miss J. J.—“I certainly do. I find that anyone who has lived on a farm or who has studied high-class stock, as you do here, has an understanding and an appreciation of my animal compositions.”

“Do you welcome visitors who are interested in your work?”

Miss J. J.—“Certainly, I shall be very glad to show my work to visitors. A number of the faculty and some students have called here already and their interest gives me great encouragement.”

ARCHDEACON SCOTT ADDRESSES STUDENTS

On Thursday, November 9th, the Society joined with the Student Christian Association in sponsoring the lecture-visit of Archdeacon F. G. Scott, Canadian poet, soldier and man of letters. The chairman, Mr. Parkin, welcomed the freshmen and visitors from the city. Dr. Stevenson, in introducing the speaker, recalled that Archdeacon Scott had spoken at the College in 1925 and quoted those of his lines which annually adorn the programme of our Baccalaureate Service:

KNIGHTHOOD

“In honour, chivalrous,
In duty, valorous,
In all things, noble,
To the heart’s core, clean.”

Archdeacon Scott entertained his audience for almost an hour with stories of his amusing and often thrilling experiences as a Padre of the front line. At the end of this talk, Dr. Stevenson asked the Archdeacon to read to the audience his poem, “The Silent Toast” and also “Yuletide in France.” This he did with much feeling but he concluded by relating, at the request of Dr. Christie, the anecdote of his experiences
with a horse which he had bought for ten dollars when he was a country parson in Quebec.

The programme was supplemented with selections by the College orchestra and embellished by two solos from Professor Blackwood, whose soul was described by the chairman as "overflowing with music."

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FIRST LITERARY MEETING WELL ATTENDED

The varied and highly interesting programme drawn up by the Union Literary Society attracted one of the largest crowds in the history of the Society on the 14th of November.

Dr. Christie, in presenting the Governor General's medal to Miss R. Van der Horne '35, remarked that this was the first time that this honour has been awarded to a lady since its inception in 1901. Miss Van der Horne has been an outstanding student since her arrival and is well worthy of the honour.

Mr. George Chapman of Guelph then presented his scholarship which also went to Miss Van der Horne. "The all around student is also a master of English," he said.

The Junior-Senior debate, "Resolved that this house approves of mixed tables in the dining hall," kept the audience in the best of humour for an hour. F. Love '35 and W. Stephen '35 as speakers on the affirmative contended that Aggies must become more fluent speakers when ladies are present and that more time must be taken to properly ingest the food given at the dining hall. T. Bell '34 and L. Herman '34, on the negative side of the question, contended that ladies would monopolize too much of the meal time conversing and produce greater dissatisfaction than ever in the student body. These speakers added much humour but could not clinch their arguments as well as the first pair of debaters. The audience was given a ballot on which to register the side most deserving of the win. The results of this vote were 2-1 in favour of the affirmative. Dr. McConkey, chairman of the judges, then verified the desire of the audience by the unanimous decision of the judges for the affirmative.

A piano solo by Miss Mason, a guitar selection by Mr. Awde and a dance by a group of Mac Hall girls, held the attention of the audience during several of the interludes.

The debate, a departure from the usual type, has justified itself this time and it is to be hoped that the interest shown will be maintained throughout the year.
POEM FOR ARMISTICE DAY

The clock strikes the hour of eleven,
And silence is reigning supreme.
As we pause for two-minutes from working
To think of what we might have been.

Living again through days that are gone
Picturing pals whom we knew;
Friends who were full of laughter and fun
Happy, light-hearted and true.

Boys who had scarce left their school days behind
—And men with their hair turning grey.
Then, side by side, they fell fighting and died
—We remember their courage to-day.

I wonder, if they could come back again
And here for a moment abide.
Would they say that their sacrifice had been in vain
In our promise to them we had lied?

We still carry on, making weapons of war,
Not keeping the vows that we owe;
Are we being fair to those lying there
In the fields where the poppies grow?

How we talked of our debt to the living,
And all the fine things that we said
How they be the first to be given
A chance to work for their bread.

Can we help them by buying a poppy
—Those that are broken and maimed?
Making their future more happy
Don’t let them ask us in vain!

But let us again, on this Armistice Day
These vows that were broken, renew!
Resolve that our promise we’ll never betray
—And see that we carry it through!

H. C. Hillis ’35
A Worm’s Eye View of No Man’s Land

No, your Mistaken, no one has either committed suicide or dropped a nickle. It’s just some of the girls giving someone’s “blind date” the once over, to see whether or not he is bald; getting the low-down from the high-up, as it were.

WHAT WOULD WE DO WITHOUT IT?

Brrr — — —


Calling down the corridor—“Hey, any body want a blind date?”

“What’s the name?” “What year is he?” “What’s he look like?”

“Somebody get the Year Book, quick!”
There follows a hurried consultation over the Year Book aided by the information gleaned from the above. During this time, the party on the other end of the line waits patiently, little knowing that his partnerless friend is being given the "once over" by means of that indispensable volume, the Year Book.

"Oh, yes, I've seen him around, sure. I'll go."

Just what would we do without it? It is just one of those things that no discriminating girl should be without. We therefore recommend that there be at least one Year Book between every four or five girls, placed in a position easily accessible to the telephone, for use in a rush. For by the aid of only one or two important facts, you need never go through the ordeal of meeting the "blind date" for the first time in full view of all your friends without the foggiest idea of what you're getting.

SOCIAL EVENTS

On Monday, October 23, the senior class gave a tea in Community House to formally welcome the juniors. Each senior took the junior and introduced her. The dining room was very attractive with yellow chrysanthemums and gleaming silver.

On Wednesday, October 25, Watson Hall gave a party to celebrate the second birthday of the residence and also to extend a very hearty welcome to Miss Clarke, the new house mother.

We were very honoured to have as our guests, Miss Cruikshank, Mrs. Goring, Mrs. Hearn, Mrs. Barber, Miss Millar and Miss Darby.

Watson Hall received many lovely gifts on the occasion and the party was a great success.

Three of our '33 graduates have joined the throng of the happily married, Miss Madora Weir was married recently in Chicago. Miss Esther Johns and Miss Elsie Robinson chose Toronto and were both married there quite recently.

The cynic is one who knows the price of everything and the value of nothing.

—Oscar Wilde
Remembrance Day

Archdeacon F. G. Scott's Address to the Students, Faculty and Staff, Armistice Day, 1933

On this day, at this hour, fifteen years ago, occurred one of the most dramatic incidents in the world's history. Along a broken line of battle-front nearly, if not quite, two hundred miles in length, there sounded from thousands of bugles, on both sides of the line, the short, crisp notes of the call—"Cease Fire." Up to that moment, shells had been bursting and machine guns hammering out their raucous messages of death. Fear, hatred and revenge filled every human heart in those muddy trenches and broken dugouts. Here and there amid the up-heaved earth, where bursting shells ripped the ground, torn and bleeding fragments of men were hurled into the air. Carnage and ruin, like ghastly prehistoric dragons, tore at the life of civilization. But with those sharp notes of the bugles there came an instant change. "Cease Fire," they sounded. It was the order of a tired and all-merciful God to a world that, by forgetting Him, had gone mad. With wild shouts and cheers the men along the line greeted the reprieve. Rifles were thrown away. Heads emerged above the parapets. Helmets were tossed in the air. Men danced and sang and embraced one another in wild frenzy -- the War was over. this "Long, long trail" had ended. The great world could breath again. Wounded and broken, it yet had the chance of a new life.

But what a bitter scene the world presented! Along those yellow muddy wastes, where broken homes and broken towns, inhabited now only by rats and vermin and reeking with putrid smells, death, almost visible, seemed to brood.
Far away in other lands homes were desolate. The light had gone from the eyes of fond parents and lovers who would see their dear ones no more. And in regions of human souls there was desolation and woe. Ideals had been wrecked, religious principles had been overthrown, hopes had been blasted and riddles of life unsolvable, baffled the poor, weary minds of nations of men.

That was the pitiable state of the world. Then the Armistice came and the war was over. And to-day we who have been saved from the general wreck, stand to honour the memory of the death of those who paid the supreme sacrifice in the salvation of mankind. Especially we think of our own British dead, and millions of numbers, who will return no more. How shall we honour them on this “Remembrance Day?” Surely by emulating their devotion and following in their footsteps of self-sacrifice; and above all by carrying out the purpose for which they laid down their lives — the end of war among men.

That was the torch flung to us by their falling hands and we must hold it high and light mankind into the way of peace and national brotherhood.

You, young men and young women, who are to play your part in the future of Canada, aim high. Live the great life. Hold fast to noble ideals, and so, one day, place our beloved country among the leading nations of our emancipated world.

Over the broken dead.
Over the trenches and wire.
Bugles of God rang out —
"Cease Fire."

Woe to those nations of men
Who, in their heat or desire,
Break that stern order of God —
"Cease Fire."
STUDENTS

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Service and quality are 100% perfect, prices moderate
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TOC H VISITS THE COLLEGE

On Saturday, 21st October, the College intermediate soccer team played a friendly game with the team from the Toronto branches of Toe H. After the game, which was won by the College, the visitors were entertained in the dining hall.

At 8:00 p.m. with the kind permission of Dr. Christie, a Toe H guest night was held in Massey Hall. Prof. Blackwood acted as chairman over a gathering of about one hundred and fifty.

Lusty singing of popular songs was followed by the introduction of the speaker of the evening, Rev. A. Holmes, the padre of the Toe H Region of Eastern Canada, by Archdeacon Scovil, padre of the Niagara District.

Padre Holmes explained that Toe H stands for Talbot House. The troops, unaccustomed to verbose phraseology, shortened this to T. H., which in the signaller’s language is Toe H.

Talbot House, so named after Gilbert Talbot, younger son of the Bishop of Winchester, who was killed near Hooge in 1915, was a rest house for soldiers situated at Poperinge. “Pop” was only six miles from the front line trenches. The house was presided over by Rev. P. B. Clayton, known the world over as “Tubby,” being further east to west than north to south. On the ground floor were canteens, reading rooms and ridiculous notices. On the second floor was the library, the Canadian lounge, the Chaplain’s room and the “General’s” room, which actually boasted two sheets—one always at the wash. The third floor contained a writing room. Above this, in what at one time had been a hop loft, was the chapel where over a hundred thousand men worshipped; many for the last time on earth.

This address was followed by the simple, short ceremony of light. After a short talk by Bob Thompson, the Regional Secretary, and a few songs the evening was concluded by home-going prayers by Padre Brooks of Guelph.
Those interested might like to know that a copy of "The Old House" has been placed in the reading room of the library. This little book conveys an idea of the model upon which all Toc H houses or marks are built.

INITIAL S. C. A. SERVICE WELL ATTENDED

The first S. C. A. chapel service of the term was held on Sunday, October 29, in War Memorial Hall. The speaker, Mr. Earl Lautenslager, B.A., of Emmanuel College dealt with many questions of the day in developing his subject, "The Effect of Religion on a World in Chaos," and he left his hearers with many new and refreshing thoughts.

Mr. Lautenslager also spoke at the S. C. A. discussion group held in the cafeteria lounge room at 9 a.m. on the Sunday morning. His informal talk on such subjects as Hitler's Germany, the N. R. A. and a new political party in Canada proved even more interesting than the afternoon address.

These Sunday morning meetings are extremely interesting and have become a very popular part of the S. C. A. programme at the College. A hearty invitation is extended to all students to join this group.

COLLEGE ENROLMENT UP

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ON THE SOCIAL PROGRAMME

December 1—(Friday)—Third Year Party.
December 5—(Tuesday)—Literary Society Final Debate.
December 8—(Friday)—Fourth Year Party.
December 12—(Tuesday)—Literary Society Musicale.
COLLEGE HONOURS WAR DEAD

War Memorial Hall as comfortably filled at eleven o'clock on November 11, as the faculty, students and staff of the College gathered to honour those who had sacrificed their lives in the Great War.

While the assembly stood in silence, the notes of the “Last Post” could be heard as the C. O. T. C. Guard of Honour, gathered about the flag, and paid military tribute.

Immediately after the two minutes of silence, representatives of the student body and faculty of the O. A. C. and O. V. C. placed a wreath on the College Cenotaph and Dr. Christie called upon Archdeacon Scott, noted Canadian Author and war padre to deliver the Remembrance Day address which is recorded elsewhere in this issue.

HALLOWE’EN DANCE RIVALS CONVERSAT

The largest crowd ever to attend a Hallowe’en Dance at the College, took possession of Creelman Hall on the evening of Saturday, October 28. Coming as it did on the evening of the “Home-Coming” game, a large number of graduates and friends of the College helped to swell the crowd which totalled over five hundred and eighty couples.

The decorative scheme, which was very attractively worked out, featured a large harvest moon as the background for the orchestra stand. Against the moon were silhouetted two black cats crouched on a picket fence in the most appropriate Hallowe’en fashion.
The lighting arrangements were also well carried out, the chief source of illumination being the moon. The chandeliers were behind masses of varicoloured balloons and spotlight illuminations played a large part in adding to the attractiveness of the whole, decorative scheme.

Novelties in the form of balloons were dropped from the ceiling about midway through the dance and the sounds of a miniature gang war broke out as the dancers exploded them.

Although the floor was very crowded, the dance may be recorded as an outstanding success through the efforts of Class '36 and the music of Wright Brothers Orchestra.

E. R. S.

NATIONAL RESEARCH LABORATORIES

(Continued from page 88)

phases which might otherwise be neglected. Mention might have been made of the investigations on the biochemical nature of rust resistance in wheat, which are going forward in the laboratory and round out a part of the programme of the Associate Committee on Cereal Rusts which none of the other co-operating institutions cared to tackle. Another researcher in the laboratory is continuing the search for new and better chemical weed-killers, thus supporting the co-operative programme sponsored by the Associate Committee on Weed Control. Close contracts and co-operation with institutions engaged in similar or related work, in order that our work may count as effectively as possible in promoting agricultural research in Canada, is the whole-hearted desire of this Division.
AGRONOMISTS HEAR WEED CONTROL DISCUSSED

R. E. Goodin '34

"The Weed Control Act and its Application in Ontario" was the subject of the address given by A. H. Martin, B.S.A., of the Crops and Markets Branch, before the Agronomy Club on October 26.

Prof. Squirrell, in introducing the speaker, told of Mr. Martin's interest in field crops and of his successes in the field of agricultural education and administration.

In emphasizing the importance of weed control, Mr. Martin pointed out in dollars and cents the value of plant nutrients lost from the soil owing to their presence. "While the Weed Act is rather difficult to enforce," the speaker stated, "definite improvements have been made during the past few years, especially since the cemeteries of the province have been cleaned up." "An effort is continually being made to educate the land-owners to the necessity of weed control, rather than enforce the severest terms of the act," Mr. Martin said.

In Mr. Martin's opinion, clean seed is the most important factor in weed control methods and the speaker also suggested that more attention should be paid to after-harvest cultivation, smother crops and careful cleaning of threshing machines would help to solve the problem in an economical manner.

Mr. Martin stressed the necessity of more seed-cleaning equipment in the province and cited many instances where the installation of such plants as a community enterprise had had very beneficial results.

CLUB ELECTS OFFICERS

The following officers were elected at the re-organization meeting of the Agronomy Club, October 16:

Honorary President, Prof. W. J. Squirrell
Honorary Vice-President, James Laughland, B.S.A.
President, R. E. Goodin '34
Vice-President, Andrew Barrett '35
Secretary, A. M. Davidson '36
Treasurer, Clifford Marshall '37
4th Year Director, J. M. Powell '34
3rd Year Director, C. C. Coutts '35
2nd Year Director, John Smith '36
SUCCESS AT WATERLOO
MARKS OPENING OF FALL
TERM

J. V. Ross '34

We extend congratulations to the members of the dairy cattle judging team, who represented the College and the Province at the Dairy Cattle Congress held at Waterloo, Iowa, on the high standing which they made in competition with seventeen colleges from across the line. The team, consisting of A. W. Archibald, H. J. Hunter, A. B. McCaugherty and D. A. Dalziel, stood second in the competition and won first in the judging of Holsteins and Guernseys.

"Bill" Archibald won the honour of being high man in Brown Swiss and second in Guernseys, standing seventh in the competition; "Irish" McCaugherty, high in Holsteins, stood sixth and "Bear" Hunter was first in Ayrshires and eighteenth in the competition.

The team was given a rousing reception at the station upon their return to Guelph and the College Band, who were making their first public appearance of the season on this occasion, assisted in making the welcome one of the noisiest in years. Later in the evening the team and Professor Raithly were entertained in the cafeteria by '34.

Much credit for the team's success is due to the coach, Professor Raithly. The members of the team are very emphatic in their expression of Prof's good fellowship and the high standing of the team this year along with the successes of previous years, give evidence of his ability as a coach.
PRICES FAIR AT COLLEGE SALE

While the weatherman was not entirely in sympathy with the event, the Annual College Sale attracted the usual large attendance and with reasonable prices, considering the times, being obtained for the animals offered for sale the affair was considered quite satisfactory. The fact that no dairy cattle were included in this year’s offering had, no doubt, a considerable influence on the total receipts of the sale as compared with those of previous years.

Four young Shorthorn sires, all by the College herd sire, Thornham Delight, brought very satisfactory returns, two reaching $100 apiece. These were purchased by M. Signer, Ariss and M. H. Galbraith, Iona. The demand for breeding Shorthorn and Aberdeen-Angus heifers was not as keen, the prices ranging from $30 to $57.50 each. An Aberdeen-Angus steer weighing 1000 lbs. went to the Frahigh Farms, Forest, at 8c. per lb. while a Hereford steer weighing 1100 lbs. was purchased by Parker and Edwards, Watford, at 7.75c per lb.

The feature animal of the sale was a Yorkshire sow, one of the 43 head of this breed sold which brought the price of $52.50. This sow, a year-old bred animal from an advanced registry dam, was bought by G. W. Miners of Exeter. The entire lot of thirty-seven Yorkshire sows averaged $22.90 and six boars, $20.40. Nineteen Tamworth sows and four Tamworth boars were sold: bred females averaging $20.83, open sows $10.27 and boars $17.50. Two Berkshire boars sold for $17.50 and $20.00 while the top paid for bred sows was $27.50.
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CONCRETE FOR PERMANENCE
Monday, November eleventh, A.D., nineteen hundred and eighteen, was the biggest day in the history of the O. A. C. - - and the rest of the world. From four-thirty a.m. there was no rest - - all was action. The boys first assured themselves that reports were official, then they began planning.

The Peace Parade was the big event of the day. Carpenters, Machinists and electricians worked 'till dark preparing floats and banners for the procession and at seven p.m. the parade started for Guelph to stage the scene. The Guelph police force began to show symptoms of neuritis when they learned of the contemplated parade and the fossilized remains of the force that existed in prewar times, quaked as they enquired of Dr. Creelman if the town was to be adorned with the College colours done in oil. Dr. Creelman, however, assured the rheumatic arm of the law that no violence was intended, so the cops ventured out to see the one real Peace Parade that Guelph can boast of having seen.

At the head of the procession, the Faculty road in cars. Then came the various units of the whole, in military fashion, marshalled by Lieut. C. M. Howarth ('20) one of our returned men. The Mac girls took first place on a float that was lighted by electricity from storage batteries. The villagers were as those just awakened from a Rip-Van-Winkle rest when the electrified van came thundering down. The Senior Year followed with an illuminated float, in which a forge and anvil were worked overtime, while returned students pounded swords in ploughshares. On the same float was arranged a set of chimes on which peace was rung in as the procession moved along. Next came "old nick," stoking in an asbestos inferno, while the Kaiser hung above, looking expectantly into his immediate abode. Three other floats followed, each having its symbolical meaning. They were manned by students who had returned from the front wounded.
Up and down Wyndham street the procession went, until the police, reinforced by a detachment of men from the 64th Battery, showed their authority, and ordered the parade off their sanctified street. It was a sore blow to the boys and girls who had worked so hard and long to make a good show, but they calmly took the orders and returned to the College where a dance was given in the gymnasium.

It seems incredible that so large a host should not have returned to "clean up" the town. The police expected it, the people whose conscience troubled them expected it and most of the students expected it, however, there was no "rough stuff." The boys decided that this was no time for a scrap: they felt the seriousness of the occasion and let the matter drop.

The parade which was witnessed by many thousands of people, was conceded to be the best yet. It was headed by the G. W. V. A. and Salvation Army Bands and in every detail strict order was maintained.

HOME-COMING GAME PROVES POPULAR

The annual "Home-coming Day" for our Alumni brought large numbers of them back to the campus to see the Aggies defeat McMaster, 12-3.

During the afternoon the faculty lounge room was open for their use so they might renew old friendships and recall the "good old days" of life in Johnson Hall.

Many took the opportunity of attending the Hallowe'en dance in Creelman Hall that evening to effectively climax their annual get-together at the O. A. C.

SCORE CARDS ORIGINATED BY O. A. C. MAN

The following bit of interesting information is taken from some recent correspondence with the College of Agriculture, University of Wisconsin.

"Here at Wisconsin we are very grateful to Guelph, as a number of your graduates made basic contributions to this institution while here on the first staff. Notable among these was John Craig, first head of our Department of Animal Husbandry. Craig invented the first score card and used it for teaching animal husbandry. Since then it has been applied in many other fields as a method of judging almost everything from cities to babies. Craig's portrait, done in oil by one of this country's greatest painters, hangs in the rotunda of the Agricultural Hall, here."

John Craig graduated from the O. A. C. with the first class in 1888.
M. A. C. STAFF INCLUDES SEVERAL GRADUATES

In the recent re-organization of the University of Manitoba, we notice that out of eleven men on the agricultural staff, eight are Alumni of the O. A. C.

The following are the men:
F. W. Broderick '03, Professor of Horticulture and Forestry.
M. C. Herner '11, Professor of Poultry Husbandry.
G. P. McRostie '12, Professor of Agronomy.
R. W. Brown '13, Professor of Dairy Husbandry.
J. McC. Brown '14, Associate Professor of Animal Husbandry.
N. James '18, Assistant Professor of Bacteriology.
A. V. Mitchener '18, Professor of Entomology.
M. C. Jamieson '22, Lecturer in Bacteriology.

AGGIE LINESMAN TURNS MISSIONARY

On Thursday afternoon a large number of Mt. Foresters saw their first game of rugby football on Mount Forest grounds when the Listowel High School team defeated the local team by the score of 10-0, which by the way, is a small rugby score.

The weight and experience of the Listowel team turned the tide in their favour, but Mt. Forest has just been training since school started and is fortunate to have a well experienced coach in Sid Henry, Captain of the 1932 O. A. C. intercollegiate team, who has been developing more open play and more brilliant tactics.

There is a prevalent idea that rugby is rough, forgetting that this game has been modernized and developed into a game requiring more keen thinking than the use of brawn.—Mt. Forest.

EX-STUDENT TO GO OVER 'OME

Included in the group of six young Toronto Jews who are returning to the land of their forefathers is Jay Helfand of class '33. The group intends to assist in the rehabilitation of Palestine, engaging in communal farm work. Helfand will take up agricultural chemical work in Tel Aviv and will probably sell corduroy pants to the Arabs as a sideline.

JUST MARRIED

H. GROH '08, Botanist at the Central Experimental Farm, Ottawa, was married on September 16th last to Miss Mildred Krupp of Amyst, Ontario.
CHAS. CASTELL '32. was married on November 3rd in Toronto to Miss Elsie Robinson '33, graduate of Macdonald Institute. By the way, Charlie is still interested in Bacteriology.

MR. WALTER FAIRWEATHER of the staff of the Economics Department, was married on October 28th to Miss Spears, former supervisor of the Guelph General Hospital.

JOHN FREDERICK CARPENTER '10

A well-known Wentworth resident died to-day in the person of John Frederick Carpenter, fruit farmer of Fruitland, who passed away at the General Hospital. He was 48 years of age and was born at the homestead in Fruitland. He was of U.E.L. stock and was educated at Central Collegiate and O. A. C., Guelph. For 25 years he was an inspector for the Federal Fruit Branch. Deceased was a member of Fruitland United Church, Scottish Rite, 32 degrees: Wentworth Lodge, A.F. and A.M. and Wentworth Conservative Association. His widow, a daughter and a son born last week, survive.—Hamilton Spectator.

SOME INTERESTING ITEMS

F. M. Logan '05. is managing director of Dealers' Dairies, St. John, N.B.

C. F. Bailey '09. Superintendent of Fredericton Experimental Station, has been ill for several months as a consequence of a motor accident in June.

A. Smith (Ginger) '10. is farming on St. Joseph's Island in Northern Ontario and during the summer months spends much time in looking after the weed inspection of his district.

W. Davison (Taffy) '13. is the premier soybean grower of Canada, having won this honour at the Regina show. Besides this, both he and his wife are interested in their Jersey cattle, Airdale and Cairn dogs. Taffy also spends much time at the Ridgetown Agricultural School in carrying out his duties of teacher at that place.

R. E. Cumming '15. the Agricultural Representative for Manitoulin Island has again put in an interesting season in his attempt to eliminate the warble fly from his district. He claims that in any case these insects are not increasing in number.

W. A. Fleming '18 of Truro, N.S., was re-elected to the Provincial legislature in the recent August elections.
N. W. Harrison (Dad) '28, was instrumental in bringing a carload of prize-winning stock to the Fort William exhibition from the Rainy River District.

Wm. Peters '32, did considerable judging at the fall fairs in Northern Ontario.

**CHANGES IN GRADUATE LIST. NOV. 8, 1933**

R. M. Ainslie, '33—Is attending the Ontario College of Education. His home address is St. Marys, Ont.

H. P. Aitchison, '31—Is taking the Poultry Specialist Course, O. A. C., Guelph, Ont.

E. A. Banting, '33—Is attending the Ontario College of Education, Toronto. His home address is R. R. No. 2, Alliston, Ont.

A. G. Bland, '13—Is with the Golf and Estates Department, Wm. Rennie Seeds Ltd., 147 King St. E., Toronto.


A. M. Campbell, '33—Is attending the Ontario College of Education, Toronto. His home address is Ridgetown, Ont.

D. F. Cameron, '33—Is with the Toronto Forestry Co., 35 Wychwood Ave., Toronto, Ont.


H. K. Claus, '32—Is with the Canada Packers, Clinton, Ont.

J. L. Crane, '33—Is attending the Ontario College of Education, Toronto. His home address is Aylmer, Ont.


W. D. E. Donaldson, '24—Is teaching at Parkdale Collegiate Institute, Toronto, Ont.

H. W. Goble, '31—Is an assistant in Entomology, Entomology Department, O. A. C., Guelph, Ont.

G. T. Hossie, '33—Is attending the Ontario College of Education, Toronto. His home address is R. R. No. 4, Perth, Ont.

J. N. Hume, '31—Is teaching high school at Leamington, Ont.

N. G. Hogg, '33—Is taking the Poultry Specialist Course at the O. A. C., Guelph.

W. L. Hamlyn, '33—Is in the lumbering business. His home address is 30 Mackenzie Ave., London, Ont.

A. B. Jackson, '20—Is farming at Bartonville, Ont.
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SAVE THE POKER HANDS
TEAM, STUDENTS AND BAND COMBINE TO LIFT RUGBY CROWN

Zero Weather Fails to Cool Enthusiasm

Well over three hundred and fifty Aggies cheered the Redmen to victory on November 15, when O. A. C. defeated McMaster to the score of 18-7 in one of the most sensational games ever played in intermediate rugby circles. Through their victory, the Aggies retained the Shaw Trophy emblematic of the I. R. F. U. Championship (western group) and earned the right to defend their Dominion title.

Tied at 7-7 at the conclusion of the regular sixty minutes, the Aggies turned on the pressure in the first overtime period of ten minutes. From then on they hemmed the Macs in their own territory, backed on their own line for practically the entire twenty minutes and scored a touch down and a flock of singles.

The Redmen got away in front in the first quarter when Keith kicked a placement, but McMaster broke through to dribble a loose ball for a touch down in the second and lead 7 to 3 at half time. O. A. C. then pulled together, gradually built the score point by point and ended the game in a tie. McMaster waged a loosing battle during the last quarter and were finally crushed by sheer weight and superior all-round ability.

It is doubtful if the College could have lost the game. After a million-gallon water fight on the eve of the game, it was found that nothing could dampen College spirit once aroused and as a result few college teams have had the fighting support that was shown on this occasion.
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Baldy and his team were shouldered from the field after the game by a wildly enthusiastic mob and a student parade, headed by the twenty-piece College band and followed by several cars and the five chartered busses, proceeded to the Royal Connaught Hotel where the natives were shown why the Red team won.

The Review extends its congratulations to the team on their success and especially to Coach Baldwin who has not only turned out another team of champions but has produced some real sportsmen, a byproduct that is overlooked by many coaches in their efforts to win at any cost.

The interfaculty team and their coach, Bill Turnbull, also deserve a place in the rugby roll of honour. Although losing their particular series and having more than their share of bad rugby weather, they deserve great credit for the way they have turned out as "cannon-fodder" for the first team during the long training grind.

**THE TEAMS**

Intermediate Intercollegiate—Snaps, Mills '34 (Capt.); McDonald '37; insides, Fitzgibbon '34, Wright '33, Graesser '35, Graham '37; middles, Hales '34; Brown '37; ends, Folland '35, Jennings '35; Berry '35, Doucette '37, Smees '37; halves, Keith '32, Pollock '35, Borisuk '35, Langdon '35, Elliott '35, Carter '36, Pannett '37; quarter, Richardson, O.V.C., Mitchell '37.

Interfaculty—Ends, Beatty and Moffat; middles, Cook and Gartchore; insides, Rae and Mitchelson; snap, Currie; quarter, Sexsmith; halves, Young, Graesser, Peer, Alexander; alternates, Stewart, Longworth, Hagey, Graham, Connell, Shrum, Thompson, Charles Feraro, Allman, Jarvis.

**RESUME OF SENIOR GAMES**

**WESTERN (1) AT O. A. C. (39)**

Oct 7—Outclassed in every feature of the game, the Western Colts went down under a score of 39-1 when they opened the rugby season with the Aggies. Apart from the opening quarter, when they managed to kick a single point, the Colts failed to offer any strenuous resistance to the Redmen who started a wild scoring rampage early in the second quarter by scoring two touch downs in quick succession.

The first quarter of the game was rather ragged, which was only to be expected when one considers the short period of training our men had had. However, the boys settled down and showed the visitors
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Western team to shreds with the hard bucking of Hales, Brown, Fitz-
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Sparton service.

McMASTER (3) AT O. A. C. (12)

Oct. 28—In a hard fought game played before a large crowd of
students, alumni and visitors, the O. A. C. team defeated their old
rivals by a comfortable margin to take the lead in the group.

The game was not what could be termed brilliant football, but it
was certainly an interesting affair to watch as both teams, realizing the
significance of a win, were playing hard and fast. For the first three
quarters, the play was close, the Aggies having the edge on line plays
but the visitors excelling in kicking and passing. McMaster were the
first to score as App’s attempted placement resulted in a miss which,
however, gained a point for them. Elliott equalised the score later on
with a long kick to the visitor’s dead line. The O. A. C. then tried a
placement kick from the thirty yard line which was successful. From
then until almost at the end of the game, the score remained close, but
with three minutes to go, McMaster fumbled a snap and Jennings,
picking up the loose ball, almost reached the touch line before he was
brought down. George Brown plunged through on a first down to
complete the play.

O. A. C. (29) AT WESTERN (1)

Nov. 6—The O. A. C. rugby team repeated their performance of the
Western game played on the campus by beating the “Colts” at London
with a score of 29-1 in a rather unexciting tussle.

In the first two quarters, the Western team were playing their best
and were able to hold the Aggies down to a 2-1 lead, but after half-time
our boys got into their stride and really started going places. Richard-
son began the scoring with a touch down which was covered by Keith.
Then a Western kick was blocked and in the resulting melee, Jennings
managed to grab the loose ball and raced over the goal line for another
major score.

In the last quarter, the boys were hitting the plays in the good old
style that brought them the championship last year. Borisuk, Folland
and Jennings picked out almost impossible forward passes. Elliott
booted the ball amazing distances and the line men tore the opposing
wings to ribbons with their heavy bucking.
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O. A. C. (1) AT McMaster (7)

Nov. 11—McMaster broke the Aggies' winning streak and tied for first place in the group when these teams met for their annual Hamilton argument on Nov. 11th. The Baptists kicked 7 points to the Aggies' single tally and that just about tells the story. Played on a field inches deep in snow, under conditions that made line plays and passing almost impossible, the wintry battle quickly developed into a kicking duel. In this department of the game McMaster has shown up well all season and the Baptists used their one good method of attack to advantage in the Hamilton game.

Distinctly better than the Redmen, who were decidedly off color, McMaster nevertheless refused to take any chances and were content to make their points in series of ones. The Baptist backfield, with Apps and Palmer, the elongated hooter as the stars, showed to good advantage while Keith, Carter and Elliott stood out for O. A. C.

AGGIES THIRD IN INTERMEDIATE TRACK MEET

Although as expected, McMaster easily won the intermediate track meet at Western U. on October 27, O. A. C. did better than they have done for several years. The Red team's outstanding contribution to the day was Roy Schiefele's spectacular work in the sprints. The Aggie freshmen headed a classy field in the century and 220, winning both events with ease. Beldam, running for the last time under O. A. C. colours, captured second place in the 120 yd. high hurdles. Thorpe, of the Aggies took a third in the mile and McKay rounded out the team's efforts by winning third place in the javelin and in the discuss events. The Redmen finished third in the meet with 16 points.

To the casual observer, that looks like a poor score, especially in comparison to the Baptists' mighty total of 71, but it means a lot to the hard-working, track-minded men of the College. Track work here has been practically extinct for the last five or six years, death being due to more or less natural causes. The facilities are poor and the encouragement given the handful of faithful adherents to spikes is very near the zero mark. Under such conditions one couldn't exactly expect a track team to thrive, and yet, in competition with three other colleges, all of which had coaching and facilities, the Aggies came third, a scant seven points in the rear of second-place Varsity.
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SENIOR SOCCER TEAM TAKES DOMINION CHAMPIONSHIP

Clever Combination Playing Gives Aggies 4-1 Triumph

While the rugby squad battled in Hamilton, the soccer team decisively defeated the Varsity Eleven in Toronto to win the Senior Intercollegiate Championship of Canada.

The game was played on a frozen field, but Prof. Blackwood solved the traction difficulties by equipping his forwards with running shoes while the backs played with studless shoes. Despite this advantage, however, the U. of T. were disorganized and beaten by a team of stars who played a baffling combination game and had their opponents bottled in their end of the field throughout the game. Davidson, star centre-forward for Varsity, was the marked man of the day. He played in four different positions on his team during the afternoon in an unsuccessful attempt to find a weak spot.

The Aggies blanked the U. of T. 3 to 0 in the first half despite playing uphill and against the wind and both teams scored in the second half. W. Van Diepen and Harper singled for the College and Thorpe scored twice.

It is impossible to single out any star players as a result of the day's work but undoubtedly the team has a star coach. Twenty-seven years ago Prof. Blackwood helped Varsity win the same title that his team took this year and it is a great tribute to his ability that all of his teams in the past two seasons have entered the Dominion finals and three of the four emerged victorious.


INTERMEDIATES ALSO TAKE DOMINION HONOURS

The intermediate team started the season in poor form by losing to McMaster 1-0 but they settled down to business and scored decisive victories over their opponents in all of the succeeding games thereby earning the title of Dominion Intermediate Intercollegiate Champions.
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RESUME OF SENIOR GAMES

McMASTER (1) AT O. A. C. (3)

Oct. 11—The O. A. C. senior intercollegiate soccer team opened the season with a comfortable win of 3-1 over their old rivals from McMaster.

Most of last year's team were again in action although slightly shuffled. Watt, who was a pillar of strength last year as full back, played on the half line. Stringer of '37 showed a good, steady brand of foot work in Wood's old position while Thorpe had the difficult task of filling George Walker's shoes as centre forward.

The game was well played on both sides but the Aggies showed a little more determination than the visitors when it came to attacking and they consequently out-played McMaster by a wide margin. "Bill" Van Diepen, star forward for O. A. C., accounted for two of the winning goals while Harper notched the third.

O. A. C. (3) AT WESTERN (0)

Oct. 14—In their first meeting with the Western team at London, the O. A. C. team proved victorious and snatched a 3-0 victory from the belligerent Westerners.

The first half would not have pleased a critical football fan as the boys seemed to have a few individual scores to settle and the result was that the game was inclined to be a trifle ragged or "scrappy," however, the Aggies evidently had the fundamental idea for Thorpe scored a goal early in the game and Cruikshank netted another tally soon after, from a penalty kick.

The second half was more smartly played and our men had a little more opposition than the previous period although they still held the best of the play and seriously threatened the London goal several times. The final score was accounted for by the Western full back who, in a clumsy effort to clear the goal, succeeded in propelling the ball into his own net.
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O. A. C. (3) AT McMaster (0)
Oct. 28—The senior soccer team practically cinched the premier position in Western Ontario senior league when they beat the McMaster team in Hamilton by 3 goals to 0.

The feature of the day was the working of the "iron man" stunt by Sherke who played with senior first and scored a goal. Immediately afterwards he played with the intermediates and materially assisted them in their victory over the Mac intermediates.

The other goals in the senior game were accounted for by Davidson, who broke through in the first half for a tally and Cruikshank, who took advantage of a penalty kick, to swell the score.

Western (1) AT O. A. C. (2)
Nov. 4—The O. A. C. senior team completed their schedule victorious by beating the Western University team by a score of 2-1 on the O. A. C. campus.

The game was a rather one-sided battle, O. A. C. having a decided edge on the playing with a smooth combination attack. The Aggies scored what seemed to be two goals early in the game but after a rather heated argument, the Western team persuaded the referee that those goals weren't goals and they were therefore disallowed. Watt, however, clinched matters shortly after by scoring a decisive counter. Thorpe scored the other goal early in the second half and Western obtained their lone tally late in the game when Sawyer slipped the ball between the posts whilst De Bloene was unprepared.

Watt, Stringer and Van Diepen stood out for the O. A. C. team while Trumper, as custodian of the net, performed Spartan service for the visitors.

Tennis
McMaster won the intercollegiate intermediate tennis championship by getting three places in the semi-final singles against Varsity, Western and O. A. C. at Hamilton on October 28th.

The men representing O. A. C. were: A. Van Diepen, J. Wishart and H. Aitken. Van Diepen and Wishart both won their matches in the first round but were eliminated in the second round by W. Tamblyn of Western and D. Russell of McMaster, respectively, "Art" going under to a score of 7-5, 6-3 and "Jack" taking the ventral position in a 6-2 6-1 defeat.
O. A. C. A REAL THREAT IN SENIOR HARRIERS

In a setting more fitted for winter sports than cross-country running, McGill University retained the senior harrier crown by a scant five-point margin over the O. A. C. Teams entered by McGill, O. A. C., Varsity, R. M. C. and Queen’s took part in the race which was held in Montreal on Armistice Day.

The race was one of the toughest the College men have ever experienced. The 5 6-10 mile course wound up Mount Royal over a bridle path covered by a foot of snow. Because of this the runners had to wear spikes and several of the men wrapped themselves with paper to keep warm. A final touch of winter was added by several ski-runners who followed the harrier men most of the way.

McCartly, the first O. A. C. Man to finish, put up a great fight for second place with McGill’s World’s Snowshoe Champion, who of course, was in his element.

The placing of the men was as follows: (first four men make up a team).

1. McGill—Time 34.15
2. McGill—
3. McCarthy—Time 34.31
4. Thorpe—Time 35.42.6
5. McGill—
6. R. M. C.—
7. R. M. C.—
8. Varsity—
9. Howitt—Time 36.32
10. Powell—Time 36.32
11. Varsity—
12. Fuller—Time 36.57
13. McGill—

The team placings were:

McGill 21 points
O. A. C. 26 points
R. M. C. 48 points
Varsity 48 points
Queen’s 80 points

The fact that the College team finished within the first ten, while the last McGill runner was thirteenth, was commented upon after the race and it will serve to show that O. A. C. harriers should take the meet next year when they will be hosts to the other teams at Guelph.

O. A. C.’s intermediate and interfaculty harrier teams both ran on November 5. The former team met McMaster in Hamilton and finish-
ed in fourth, fifth, sixth, seventh and tenth positions. Varsity and Western both defaulted. The interfaculty team placed third against stiff competition at Toronto and gave evidence that there will be plenty of good harrier material for future years.

GOLF TITLE TAKEN BY AGGIES

Much to the surprise of Intermediate Intercollegiate Golf circles the "farmers from Guelph" helped themselves to the 1933 title. The competition took place over the Hunt Club Course in London on Nov. 1, and the Aggie team composed of Richardson, Mason, Hutchinson and Walberg earned a 13 1/2 point total to edge out McMaster by half a point. Western, last year's champions, brought up in the rear with 9 1/2 points.

FROSH TRIUMPH IN ANNUAL MEET

An athletic band of freshmen led the way in the annual track and field meet held on October 18th, nosing out the seniors by a scant half point. Truss, grand champion, with 19 1/2 points to his credit, and McKay with 16 accounted for the great majority of '37's total. McKay shattered the existing record in the javelin throw by some twenty-five feet, hurling the spear 157 1/2 feet. Schiefe, one of the best sprinters seen in these parts in many moons, equalled the 10 sec. record with ease on a very slow track. The results:

Grand Champion—H. Truss '37, 19 1/2 points
Runner-up—G. McKay '37, 16 points
Champion of jump and vaults—J. Wishart '34
Champion of weights—G. McKay '37
Champion of short runs—H. Truss '37
Champion of long runs—R. Thorpe '35

CORRECTION

Owing to an error in the advertisement of Bagg, Cleaner and Dyer, which appeared in the October issue of the Review and read, "suits pressed $1.00," we wish to draw your attention to the fact that this should have read, "three suits pressed, $1.00."
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