THE
O.A.C. REVIEW
Graduation Number
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TORONTO
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Smoke
Buckingham
—and Smile

Have you seen the fine new Buckingham Posters? . . . Do they make you smile? . . . That is our big job just now—to make people smile!
The Profession I have embraced requires a knowledge of everything.


The Threshold

Dr. G. I. Christie

The forty-eight men who received the degree of Bachelor of Science in Agriculture on Friday, passed into the large body of graduates representing the O. A. C. This group now exceeds eleven hundred.

While these men leave the college at a time when the problems are many and complicated, and when there are few leaders to feel that they can show them the way; at the same time they come out with a broad education and a training which should permit them, and fit them to take up some of the real tasks which lie ahead of them.

The graduates do not look for, or expect an easy berth. They are not afraid of hard work; they are looking for an opportunity. I have every faith in the graduates of 1932, and can prophesy for them a bright future.

They will keep up the high standard of O. A. C. graduates and will add to the glories and the services of these workers.

They have our best wishes.
DR. G. I. CHRISTIE

Executive Head of the O.A.C.
Baccalaureate Sermon

Rev. D. T. Owen, D.D. Bishop of Niagara

"Give a portion to seven, and also to eight."—Ecclesiastes XI. 2

The first thing which I would say today is a word of sincere congratulation to you as graduates in a great and honourable calling. The dignity and the greatness of that calling as Students in the Ontario College of Agriculture and its allied subjects cannot be placed too high in the minds of all thinking people.

The original commission given to man was a commission which had for its objects the dominion of the earth, and the living things thereof, and the cultivation of the field.

"Replenish the earth and subdue it, and have dominion over the fish of the sea, and over the fowl of the air, and over everything living that moveth upon the earth. And God said, Behold I give you every herb bearing seed, which is upon the face of the earth, and every tree yielding seed; to you it shall be meat. And to every beast of the earth, and to every fowl of the air, and to everything that creepeth upon the earth, wherein there is life, I have given every green herb for meat."

In some form the task which is yours (and I am conscious of the wide range of subjects which is studied in this institution) is that elemental task of subduing the earth. It is the work of conquering the wilderness, of drawing order, plan and purpose out of chaos. There is a great joy in such work. To make two blades of grass grow where before was one: to bring out of confusion and apparent waste, order, abundance and beauty is a work of the highest order. It is, I believe, no less than the cooperation of Man in the great orderly beneficient purpose of that Eternal Spirit, who brooded over the abyss which was without form, and void at the beginning.

I congratulate you upon the greatness of the calling under the auspices of which we meet in this service today.
Yours is an office of both opportunity and difficulty, as is the case in all worth-while work. Indeed I apply to you and your work, the words which my Church addresses to those about to be ordained. "Forasmuch then as your Office is both of so great excellence and so great difficulty, ye see with how great care and study ye ought to apply yourselves."

There is but one subject in view of these things to which I would draw your attention today.

It is the necessity in all high and noble work and living, of effecting a proper combination of or balance between, the ideal and the actual in all the great departments of life.

The combination of idealism and realism is essential to true success.

There is on one side the absolute necessity of idealism and vision. There is need also with this to effect a practical application of hard routine work.

According to our disposition we are naturally or more easily drawn to the one side or to the other.

We may be of those who dream easily, the light that never was on land or sea draws us, or we may be of those who like only practical every day things.

It is the combination of the two that is so essential in my view.

We must dream dreams and see visions, we must open our eyes to that light brighter than the Sun, we must catch some of the notes of the music of the spheres, but "the first thing to do," as has been said, "to make our dreams come true is to wake up," and the second thing is to go to work.

The only way to build the City of Ideals is with the crude material of the actual. In no other way can the City be built—but neither can the City be built unless there is a Vision of the ideal by which we build. We must build according to the pattern shown us in the Mountain of Vision. But it is from the crude and actual materials of every day duty we draw the building material.
I have seen a vision of what might be. I have caught a glimpse of the ideal in that situation, and what do I find happens. I am set to making bricks without straw! Well, some of the greatest edifices erected in the World, have been constructed with bricks made without straw! Excellent building material such bricks are:

Some of the pioneers on the farms and in the primitive communities of our own Upper Canada are an illustration of that of which I speak.

What do you see, Oh Pioneer in your rude shack in the forest? Of what do you dream as you drive your ox wagon over the corderoy roads of Ontario?

I see a great community where now is swamp, morass, forest and wilderness. I see great cities and cultivated farms, and I dream of a day that is coming for my children and my children's children, and as I dream I tear out the stumps and build a rude fence, and do what is at hand to do.

And so it goes the Story, the greatest story of Life in my opinion, the story of the conquering of the Wilderness, by the men and women who can both dream, and work to make their dreams come true.

Again there is another realm in which, for all successful and happy work, this combination between the Ideal and the Actual must be made. In the sphere of Personality it is essential that this adjustment be made. It is the conflict between the ideal and the actual in this sphere that is the cause of so much halting in life and work.

All know something of the need of this adjustment between the ideal, the vision of what we are meant to be, of what we would like to be, of what we hope people think we are, and what we are.

It is so important that here there should be a proper balance. We need to know ourselves and to face ourselves, indeed we are to accept ourselves, to forgive ourselves, and to accept the forgiveness of the Eternal God, and then to go forward to build up our personalities into the likeness of the perfect man,
from the only strong and lasting foundations for character, self-knowledge, repentance, forgiveness and faith.

Take these two things, the ideal of yourself and the actual self—you as you really are. Work with those two and adjust them. You must work with both elements, in this sphere, as in all others.

Your real self, your true self is a wonderful compound of the ideal and the actual.

Face yourself, know yourself, accept yourself. The glory of Divine forgiveness is the only solid ground on which to build the true self which is really you.

Self depreciation and self conceit are two sides of one ugly error, self deception.

You can never build that true self on the rotten foundation of self deception.

But this truth takes on another aspect. This process of the adjustment of the various elements in personality and the development of personality does not go on in splendid isolation. The process is a social process.

The individual personality develops truly only in contact with other personalities. It is only as the individual learns to cope into effective co-operation with others that the personality truly grows.

"The whole process of social and civic development is the parallel growth of two things: the richness of individual personality with completeness of social intercourse."

Man must face, not only himself, but two other Supreme facts, God, and his fellowman.

And this brings me to the third and last aspect of my subject.

The subject of the ideal and the practical in relation to that subject of all subjects—GOD.

Here we are face to face with that which we call the Beatific Vision, but which we call also the Ultimate Reality.
By the word God, we mean not only all that is involved in such words as Idealism, beauty, goodness, truth, but all that we mean by reality, force, purpose.

Find then the combination between idealism and realism. Do not despise either. Live the balanced life.

"Give a portion to seven, and also to eight."

Break your land and sow your crops, and listen to the voice calling beyond the Mountain.

"There's no sense in going further—it's the end of cultivation—So they 'said and I believed it,—broke my land and sowed my crops,

Built my barn and strung my fences in the little border station. Tucked away below the foothills where the trails run and stop—Till a Voice, as bad as Conscience, rang interminable changes, One, one ever lasting whisper day and night repeated—so

"Something bidden—Go and find it,

Go and look behind the ranges—Something lost behind the ranges,
Lost and waiting for you—Go."
Virtute Functi More Patrum Duces

Graduates 1932

J. M. S. WILSON—Specialist in Field Husbandry.
1929-30—Year Representative of the Rifle Association.
   Inter-Faculty B. W. F. team.
1930-31—Vice-President of the Rifle Association.
   Winner of Grand Championship in the Agronomy Section, College Royal, 1931.
1931-32—Member of Inter-Faculty and Inter-Collegiate Wrestling Team.

1928-29—1st Year Representative on the Students’ Council.
   Member of Inter-Faculty Baseball Team; Soccer Team.
1929-30—On 2nd Rugby Team; Inter-Faculty Baseball Team Secretary of Students’ Council.
1931-32—Fourth Year Representative of S. C. M.

A. J. S. GESNER—Specialist in Botany.
1930-31—Associate Editor of the Review.

F. W. T. LUCAS—Specialist in Botany.
1930-31—Played on Inter-Year Soccer Team.
   Major part in two Philharmonic productions.
   Literary Editor of Review and Oacis; Associate Editor of Review.
   Winner of Public Speaking Contest.
1931-32—President of Literary Society; member of Inter-Year Debating Team and Soccer Team.

S. A. SIMMONS—Specialist in Botany.
1928-29—Member of College Orchestra. Took leading part in Philharmonic play. Cheer Leader.
1929-30—Novice Relay Team in Aquatic Meet; Gym Team; member of Haymakers Ball Team.
1930-31—Leading part in two Philharmonic plays.

**M. V. ALTON—Specialist in Horticulture.**

1929-30—2nd Year Representative on Students' Co-operative Association.

1930-31—President Students' Co-operative Society.
Leading part in two Philharmonic plays.

1931-32—President of Horticulture Club; Horticulture Editor of the Review.

**H. G. WEBSTER—Specialist in Chemistry.**

1927-28—Member of Wrestling Team.

1929-30—Member of 2nd Rugby Team and Wrestling Team; winner of Walk in Annual Field Day.

1930-31—Winner of Inter-Faculty Wrestling Championship.

1931-32—Captain of the Wrestling Team; Secretary of the Chemistry Club.
On Inter-Year Rugby, Soccer, and Wrestling Teams.

**H. E. RICHARDSON—Specialist in Dairying.**

1930-31—1st Prize in Ice-cream Judging in Dairy Club Competition.

Member of Inter-Year Hockey Team.

**A. M. ROSS—Specialist in Field Husbandry.**

1927-28—Member of Soccer Team.

1928-29—2nd Year Representative Year Book; Year Executive.

Soccer and Harrier Team.

1929-31—1st Rugby Team; Soccer Team.

1931-32—President of Agronomy Club.

**W. J. GARNETT—Specialist in Horticulture.**

1927-28—Secretary Union Literary Society.

Inter-Faculty Harrier Team (Champions).

Inter-Faculty Soccer Team; Inter-Year Boxing Finalist at 135 lbs.

1928-29—Associate Editor of the Review.

Winner of Governor-General's Silver Medal; George Chapman Scholarship in English; and Group Scholarship.

Inter-Faculty Harrier and Soccer Teams; Inter-Collegiate Track Team.

1930-31—Editor O.A.C. Review; Athletics Editor, Oacis.
STUDENTS' COUNCIL 1931-32.
Vice-President Horticulture Club; College Royal Executive; Inter-Year Debating Team; '05 Scholarship Winner; Inter-Collegiate Soccer Team, Western Group Champions.

1931-32—Editor O.A.C. Review; Advisory Board, O.A.C. Review.
Catalogue Editor, College Royal Executive.
Captain, Senior Harrier Team.
Member of N. F. C. U. S. Debating Team, touring the Maritime Provinces.

A. M. WEIR—Specialist in Animal Husbandry.
1928-29—Member of Year Executive; Year Representative of Co-op.
1929-30—Year President.
1930-31—Vice-President Students' Council; Manager of 1st Rugby Team.
1931-32—President Students' Council; Senior Manager of Rugby Teams.
Championship in Swine, College Royal.
Dean of Athletes Alley.

W. R. DUNLOP—Specialist in Dairying.
1930-31—Member of Wrestling Team.
1931-32—Inter-Year Soccer, Rugby, and Wrestling Teams.

M. D. SHEARER—Specialist in Animal Husbandry.
1930-31—2nd Rugby Team; Manager of 1st Hockey Team.
1931-32—Member of Live-Stock Judging Team at Toronto, St. Louis and Chicago.

A. S. FINBOW—Specialist in Animal Husbandry.
1927-30—2nd Basketball Team.
1930-31—1st Basketball Team.
1931-32—Inter-Year Basketball and Rugby Team.

E. N. NEEDHAM—Specialist in Animal Husbandry.
1930-31—Dramatic Manager of Philharmonic Society.
1931-32—College Royal Executive; member of Live-Stock Judging Team at Toronto, St. Louis and Chicago; Inter-Year Debating Team.

E. G. SLATER—Specialist in Horticulture.
1927-28—2nd Basketball Team.
1928-29—2nd Rugby Team and Basketball Team.
1929-30—1st Rugby Team.

F. GFELLER—Specialist in Field Husbandry.
1928-29—Took part in “Pirates of Penzance.”
1930-31—Inter-Year Wrestling Team.
1931-32—Track Team; Glee Club.

T. W. GOURLAY—Specialist in Animal Husbandry.
1930-31—Inter-Year Assault-at-Arms.
1931-32—Member of Live-Stock Judging Team at Toronto, St. Louis and Chicago. Winner of Grand Championship in Livestock at the College Royal 1932.

J. W. BECKER—Specialist in Chemistry.
1928-29—2nd Rugby Team.
1929-30—1st Rugby Team; Chemistry Editor of the Review.
1931-32—President of the Chemistry Club. On College Royal Committee.

E. J. DOYLE—Specialist in Chemistry.
1930-31—Inter-Year Debating Team; Treasurer of the Literary Society; Oacis Staff; Secretary S. C. M.; President Literary Society.
1931-32—House President Mills Hall; Year Representative on Year Book.

D. F. HASSARD—Specialist in Chemistry.
1927-28—1st Year Debating Team.
1929-30—Trainer for Rugby and B. W. F. Teams; Business Manager of Philharmonic Society.
1930-31—Manager B. W. F. Team; College Life Editor of the Review.
1931-32—Year Columnist Oacis; Inter-Year Hockey and Rugby Teams.

W. E. ARBUTHNOT—Specialist in Chemistry.
1927-28—2nd Rugby Team.
1928-29—1st Rugby Team; Assistant Stage Manager Philharmonic Society.
1929-31—1st Rugby Team; Stage Manager and Dramatic Manager; one Philharmonic Award.
1930-31—President Philharmonic Society; Conversat Committee.
1931-32—Vice-President of the Year; Photographs Editor Year Book; Inter-Year Rugby, Soccer and Hockey Teams; Coach of 2nd Rugby Team.

A. F. ROBINSON—Specialist in Animal Husbandry.
1929-30—Captain 2nd Rugby Team; Senior Hockey Team.
1930-31—President of S. C. M. Senior Hockey Team.
1931-32—Coach Junior Inter-Collegiate Rugby Team; Inter-Year Rugby, Soccer, Hockey, Basketball, and Aquatic Teams.

M. A. COLVILLE—Specialist in Field Husbandry.

1929-30—2nd Rugby Team; Year Representative Year Book.
1930-31—Track Team; Manager of 1st Basketball Team; Vice-President Poultry Club; Secretary of Year Book Committee.
1931-32—Editor of Year Book; President of Poultry Club; Inter-Year Hockey and Rugby Teams.

H. W. COLE—Specialist in Animal Husbandry.
1929-30—Students' Council; Year Executive; Hallowe'en Dance Committee.
1930-31—President of Year; Convener of Conversat Committee.
1931-32—Students' Council; Year Executive; Dean of Mills Hall; Inter-Year Rugby Team.

H. K. CLAUS—Specialist in Animal Husbandry.
1929-32—Member of 1st Rugby Team.
1930-31—Co-op. Executive; Gym Team; Inter-Year Assault-at-Arms; Aquatic Meet.
1931-32—1st in Horses at the College Royal 1932.

R. H. KEITH—Specialist in Horticulture.
1928-32—Member of 1st Rugby Team; Year Rep. Athletic Executive 1928.
1929-30—Store-Room Manager.
1930-31—Treasurer of Athletic Association; Conversat Committee; Gym Team; Aquatic Team; leading part in Philharmonic Play.

1931-32—President of Athletic Association; Inter-Year Hockey and Basketball Teams; Inter-Year Relay Medal; leading part in Philharmonic production.

K. C. CHRISTENSEN—Specialist in Dairying.
1928-30—Gym and Aquatic Teams.
1930-31—Manager of Athletic Store Room.
1931-32—Dairy Judging Team Springfield and Atlantic City: 2nd Rugby Team; Inter-Year Hockey, Rugby and Aquatic Teams.

J. E. NEPHEW—Specialist in Animal Husbandry.
1930-31—Member of Animal Husbandry Club Executive; Vice-President of Philharmonic Society.
1931-32—President of College Royal; member of Judging Team at Toronto, St. Louis and Chicago.

S. HENRY—Specialist in Animal Husbandry.
1928-32—Member of 1st Rugby and Hockey Teams.
1928-29—2nd Year Treasurer and Representative of Athletic Association; Assistant Editor of Biographies Year Book.
1929-30—Secretary of Athletic Association.
1930-31—Vice-President of 3rd Year; Conversat Committee; Captain of Hockey Team.
1931-32—President of Year; Livestock Judging Team at Toronto; Captain Rugby Team; Winner of Purina Scholarship St. Louis.

W. J. WILSON—Specialist in Dairying.
1928-29—Animal Husbandry Scholarship Winner.
1929-30—1st Soccer Team.
1930-31—Secretary of Dairy Club; Conversat Committee.
1931-32—Captain of Soccer Team; Treasurer of Year.

W. R. PETERS—Specialist in Animal Husbandry.
1916-18—Winner of Cross-Country Run, Three Mile Run, and 440 yards indoor, for two years.
1931-32—Member of Livestock Judging Team Toronto.
W. WALLACE—Specialist in Animal Husbandry.
1931-32—High man in Horses at Toronto Royal, and in Dairy Cattle at Guelph.

R. MALKIN—Specialist in Chemistry.
1929-30—2nd Baseball Team.

R. C. ROSBOROUGH—Specialist in Chemistry.
1930-31—Secretary of Rifle Association.
1931-32—President of Rifle Association.

T. K. C. KARR—Specialist in Horticulture.
1928-29—2nd Rugby Team.
1929-30—Conversat Committee; Secretary of Year Executive.
1930-31—Students' Council; Year Executive; 2nd Rugby Team.
1931-32—Students' Council; 2nd Rugby Team.

GEORG DE JONG—Specialist in Dairying.
1931-32—Dairy Products Judging Team at Springfield and Atlantic City.

H. A. PASS—Specialist in Entomology.
1931-32—2nd in Public Speaking Contest.

E. W. KENDALL—Specialist in Entomology.
1927-28—Aquatics Champion.
1928-29—Aquatics Champion; Harrier Team; Year Secretary.
1929-30—Aquatics Champion; Field Day Champion; Track Team; Captain of Harrier Team.
1930-31—Aquatic Team; Inter-Year Debating Team; Photographs Editor Year Book.

B. J. DUNSMORE—Specialist in Animal Husbandry.
1929-30—Treasurer of Year; Conversat Committee.
1930-31—Secretary of Year; President of Animal Husbandry Club; College Royal Committee; Editor of Biographies Year Book; Livestock Judging Team at Toronto and Chicago.
YEAR PRESIDENTS
Graduation Day

A colourful ceremony was enacted in the College grounds on Friday 20th May, when the degrees of Bachelor of Science in Agriculture were conferred on the young men who had completed four years of study at the college.

The Memorial Hall, in which the ceremonies were conducted, was crowded with parents and friends of the graduates, while in the balcony Macdonald Institute students gathered.

Sir Robert Falconer, president of the University of Toronto, delivered the address to the graduates following the conferring of the degrees by Sir William Mulock, Chancellor.

Sir Robert urged the young men to carry with them into the world the scientific spirit, and the spirit of appreciation, a combination which, he said, would give them not only material progress, but a knowledge and understanding of the greater problems which men and women have tried to solve for hundreds of years.

The procession proceeded from the main Administration Building to Memorial Hall, across the campus. The mace bearer in the lead, was followed by the Chancellor and the President of the University, and after them came college officials, government dignitaries, members of the O. A. C. faculty and finally, the graduates. Brilliantly coloured robes added a picturesque touch to the occasion.

The graduates were presented by Dr. Christie, and each one proceeded from the floor of the hall to the platform, where Sir William Mulock conferred the degrees. The Chancellor also presented to W. L. Putman, of Grimsby, Ont., the general proficiency prize.

It is doubtful whether the day could have been finer or the auspices more favourable, though the general depression and the consequent shortage of positions must have cast a shadow over the proceedings for those graduates who had hoped to take up professional work immediately.

A garden party was held on the lawn behind Macdonald Hall and a highly successful day came to an end with the traditional Dance in Macdonald Hall.
The Debt of Canada and the Empire to an Immigrant Wheat Kernel

By Dr. O. McConkey

Canada's prosperity has been built up most of all on her high quality wheat; the west depends directly on wheat; the east also depends on wheat substantially though indirectly; the railways depend on wheat; the Eastern manufacturer depends on being able through tariff to gain a protected market in the west; and the government depends on tariff for revenue. When the price of wheat falls in Canada, revenue drops, and the wheels of industry slow down.

Canadian wheat is sought in the world's markets, because of its high quality, for blending with inferior baking wheats to make better bread. Much of this quality traces to a single kernel of wheat which migrated to Ontario, and thereby hangs a tale, one of the most fascinating romances in the history of plant introduction and hybridization.

The ultimate influence of the introduction of this wheat on the increased wealth and welfare of the people of Canada, the British Empire, and the bread consuming peoples of the world would indeed be difficult to compass and compute.

Origin of Red Fife Wheat

While in Peterborough County last summer, we made a point of visiting the Fife homestead to learn at first hand the authentic story of the origin of Red Fife wheat.

In brief it is this; John Fife, a native of Perthshire, Scotland, set sail for Canada in May, 1820, and, like many of those early colonists, landed at Port Hope, Ontario.

After reconnoitering the land he settled in the Township of Otonabee in the county of Peterborough, about seven miles east of the now prosperous city of Peterborough.
It is picturesque, rolling countryside where these sturdy, undaunted pioneers chose to carve out their home in Upper Canada. One can still catch something of the spirit of the pioneers, as one follows bits of the winding trail cut by our forefathers from the front to the settlements in the north, and sees the early stone grist mills, well builded by them along the streams in the pleasant valleys of Peterborough.

Lang's Grist Mill near the Fife Homestead, where Flour was first made from Red Fife Wheat.

When King Edward VII visited Canada he had bread made from Fife Wheat ground in this old pioneer mill.

Here on the farm of David Fife, third son of John Fife, was born to fruition Red Fife wheat, the quality of which has gained first place for Canadian wheat in the commerce of the world.

In the year 1841 Mr. Struther, a friend of David Fife, was returning to Scotland, and on bidding Mr. Struther godspeed. Mr. Fife asked his friend to send him some seed of wheat from northern Europe. Landing in Glasgow, Mr. Struther found a cargo of wheat from the port of Danzig, and from this cargo a sample of grain was despatched to David Fife, which arrived in the autumn of 1841.
The Garden of the Fife Homestead where the first plant of Red Fife Wheat was grown.

The Fifes planted the grains in their garden in the spring of 1842; one kernel sent up five heads, the other plants showed the low growth character of winter wheat, and these did not fruit.

Oxen broke into the garden, and in their depredations had destroyed two stems of the wheat plant, when Mrs. Fife drove them out, saving the remaining three heads. These were carefully garnered and stored in the kitchen.

Seed from the three heads was increased year by year and small quantities distributed to neighbors, Mr. Armstrong, grandfather of Professor R. C. Knox, being one of them. The superior qualities of the new wheat kindled interest in the neighborhood, by proving to be a sturdy strong grower, and a good yielder of grain of an attractive red colour, with good milling and baking qualities. Though late in maturing it proved to be more resistant to rust than the Club or Siberian as it was sometimes called, which was the variety commonly grown in the neighborhood.

A particularly bad season for rust proved the superiority of Fife over Club, which was so badly rusted that the crop was a failure. This crisis moved the Otonabee Agricultural Society to purchase all the seed of Fife which was available, for dis-
tribution to their members. The society succeeded in securing 260 bushels, for which they paid $2.00 a bushel, the principal holder refusing to take less.

The acreage and popularity of Red Fife spring wheat spread through Ontario. James Fife, a brother of David, was awarded a prize for it in 1848, and old timers in Ontario relate that it soon became the principal prize winning wheat at the agricultural shows.

Red Fife followed the stream of migration from Ontario to the United States, and with the development of the wheat lands of the west, was introduced into Wisconsin in 1860, and into Minnesota, where it eventually became the basis of the great Minneapolis flour industry. Carleton R. Ball, formerly in charge of the Cereal Division of the United States Department of Agriculture, writing of the history of the introductions of wheat to the U.S.A. states: "Undoubtedly the one of most importance to the United States was the famous Red Fife."

Fife followed the development of the spring wheat lands of the Dakotas, and into Manitoba with the opening of the St. Paul-St. Boniface railway in 1878.

In 1882, James Hartney imported a carload of Red Fife from Minnesota to Manitoba. In 1883-84 the Canadian Pacific Railway secured seed from Mr. Hartney to seed their experimental farms located on virgin soil at points along the newly constructed line from Winnipeg to Calgary. In this way a supply of high quality seed was secured and distributed to the settlers. Thus we can trace the multiplication and migration of the seed from the single plant in the Fife garden to the great spring wheat area of North America.

It was indeed a fortuitous circumstance for the future of Canada that seed of such a high quality wheat as Fife was used in the early development of the vast virgin lands of this "bread basket of the world." "Manitoba Hard" has become a byword and the wheat a standard for quality in the marts and mills of the world.
EARLY FROSTS MENACED THE YE CROP

It will be remembered that the pioneers of Otanabee Township noticed that Fife was late in maturing. This late maturing character of Fife became a serious problem as settlement pushed north and westward on the high plateaus toward the Rocky Mountains.

I have seen beautiful field of Fife frozen in the blossom stage early in August on the homesteads of Alberta, a total loss, all the year's work and the hopes of the settler and his family ruined in a few hours. It was a disheartening sight to see those magnificent stands of wheat springing from the virgin soil blacken in the bright morning sunshine of Alberta, but the plucky pioneers carried on and won, through the help of the application of science to the breeding of early maturing wheats.

EARLIER MATURING WHEATS WERE DEVELOPED

All Canadians are familiar with the story of the development of Marquis wheat—how the late Dr. William Saunders, Director of the Dominion Experimental Farms, saw the urgent need of an early wheat for the west. Early wheats were secured from Russia and India, and crosses made at different experimental farms in the west by Dr. W. Saunders and his sons.

Dr. Charles Saunders, when working at Ottawa on these crosses, selected a plant from the progeny of a cross between Red Fife and Hard Red Calcutta, from India, which combined the early character of Calcutta with the yield and strength of Fife.

The new creation was christened Marquis. Its early maturing character—6 to 10 days earlier than Fife—ensured the wheat crop from frost hazard over the major portion of the spring wheat belt, and it rapidly replaced Fife in Canada and the northern States where some 5-600,000,000 bushels of it are now grown annually. The wealth and welfare which Marquis wheat has brought to Canada and the U.S.A., both west and east, would be difficult to estimate.

It is a striking example of the value of the application of science to agriculture and in the field of plant breeding where
so many brilliant accomplishments have been made in both tropical and temperate agriculture, the breeding of Marquis wheat in Canada stands out pre-eminently as perhaps the world's greatest feat in economic crop breeding.

Varieties earlier than Marquis were needed for the short growing season of the foothill sections, the northern park belt of the prairie, and the Peace River country. Promising varieties have already been developed by the Cereal Division, Ottawa, notably Garnet and Reward. It will be seen by examining the following pedigrees that these early wheats which are steadily pushing the wheat belt northward have Red Fife in their ancestry.

```
Ladoga       Red Fife       Onega       Gehun
     |               |     |               |
  Preston             Early Riga
     |               |     |               |
  Preston A       Garnet       Riga M

Red Fife       Hard Red Calcutta       Ladoga       White Fife
     |               |               |
  Marquis               Alpha           Hard Red Calcutta
                          Fraser           Gehun
                                      |                   | Prelude
                                      |                   |
                                      |                   |
                                      |                   |
                                      Reward

THE INFLUENCE OF RED FIFE THROUGHOUT THE EMPIRE

The Home Grown Wheat committee of Britain was formed in 1901, with the object of improving the baking quality of English wheat by securing a parent of high and stable quality to cross with the indigenous soft English wheats.
In 1902 Sir Daniel Hall, a member of the committee, obtained a small lot of Red Fife wheat from Dr. William Saunders, Ottawa. This wheat was grown according to the plans of the committee, for twenty-one consecutive years in eleven different environments, and it is stated in the official report "that after twenty-one years of continuous production in England, Red Fife retains, as shown by milling and baking tests, its distinguishing characteristics in all cases when grown in eleven different environments."

It came as an interesting and pleasant surprise to me when I first saw the photograph reproduced below in the National Institute of Botany, Cambridge, and learned that the high quality of the proteins of Fife remained unchanged after being grown for twenty-one years in the humid climate of England, and that the loaf produced from it surpassed the nearest competitors in volume and texture.

1. No. 1, Northern Canadian Wheat. Volume—3275 c.c's.
4. Little Joss (rust free variety). Volume—2800 c.c's.
5. Yeoman No. 1. Volume—2825 c.c's.

WHY THE STRENGTH OF FIFE?

Early work by Professor T. B. Wood resolved the conception of flour strength into two factors: (1) the factor of strength which determines the shape of the loaf, and (2) the factor which determines the size of loaf. It was not until later
that an explanation was found of the difference in the proteins of the soft English wheat and that of Red Fife.

Dr. H. E. Woodman, using the racemisation method, showed that the gliadines from the soft wheat and the hard Fife were identical proteins, but that the optical behaviour of the glutenines showed that the strong wheat Fife synthesizes one type of glutenine and the weak English wheat a different type.

Sir Roland Biffen had correctly anticipated that Fife was a high quality wheat and years before the above ecological experiment had run its course, he used it as a parent in crosses with the weak flour English wheats to improve their baking qualities. This he accomplished with signal success in the cross Browick X Red Fife from which Yeoman was selected. Yeoman is now widely grown in Britain and its flour bakes remarkably well as illustrated in loaf No. 6, the volume of which compares favourably with that of Red Fife.

Another interesting example of the influence of Fife on the quality of the wheat of the Empire is to be found in the accomplishments of Farrer, a Clare College man from Cambridge, who, on the advice of his physician to seek a dry climate, decided to go to Australia, where he devoted his time to the improvement of the quality of Australian wheat. From a cross in which he used Red Fife he secured the high quality wheat, Federation, which wheat, some high authorities state, made possible the wheat industry of Australia.

Fife, because of its inherent character to retain its strength and quality in different climates, is being used at the present time as a parent to secure high quality varieties adapted to the plateau wheat region which is being developed in Nigeria and other areas in Colonial Africa.

It is indeed interesting to contemplate on the far reaching influence which the progeny of the single plant garnered on the Fife homestead in Ontario has had on Canadian and Empire agriculture. How fortunate it was that seed of this strong wheat was available at the threshold of the development of the virgin wheat lands of not only Western Canada but of the United States and Australia.
ORIGIN OF FIFE IN EUROPE

When in France I visited the experimental field of the firm of Vilmorin-Andrieux & Cie, situated at Verrières near Paris, and while examining the varieties of wheat we came to the plot of Red Fife and Monsieur Menninier remarked that when the first sample of Fife from Canada reached Verrières in 1884 and was grown in the plots, Monsieur Philippe de Vilmorin noticed that it was almost identical with a variety they had been growing for some years named Juli Weizen, and later an almost identical wheat called Blé de été de Galicie was tested in 1894. This latter name at once indicates Galicia as the province of origin.

Later, when I visited the Swedish Experimental Station at Svalof, Dr. Ackerman remarked that the wheat called Kolben which they had been growing for years was very similar to Canadian Red Fife.

Vilmorin received Galizischer Kolben Weizen in 1889 and classed it with Fife, the name again indicating Galicia as the region of origin.

Later while examining some studies by Professor Roemer of Leipzig on the origin of different varieties of wheat I found that he traces Galizianischer Kolben to an old landrace wheat of Galicia.

In 1904 Dr. Charles Saunders received a sample of wheat from a seedman in Germany under the name of Galician, and this wheat proved to be identical with Red Fife in habits of growth and baking quality.

Galicia lies about 300 miles south and east of Danzig, and it would seem safe to say that, since wheat from this territory is shipped from the port of Danzig, the kernel whose progeny ultimately seeded the greater part of the spring wheat belt of Canada and the United States and has improved the baking quality of many of the wheats of the British Empire, originated in Galicia in Central Europe.

We will all agree that Central Europe has sent us at least one good immigrant.

What a canny Scot Mr. Struther must have been. Only a Scotsman could have chosen such a gem of a kernel from a shipload of wheat.
Obituary

Mr. A. A. McTavish

Resident Master, O.A.C., 1878-1880

WITH the passing of Mr. A. A. McTavish, another link with the past has gone. Mr. McTavish was one of the earliest men on the College Faculty, being originally Dean of Residence in the old Stone Farm House, under President Johnston, previous to Dr. Mills. He was one of the last of the original professors, or instructors as they were then called, for in those days there was no specializing.

Mr. A. A. McTavish

In addition to his duties as Dean of Residence, Mr. McTavish was also instructor in Mathematics and Physics, including drainage, and Director of Athletics, work which is now car-
ried on by four different men. He was a wonderful athlete, and remained remarkably active almost up to the time of his death at the age of 83.

Mr. McTavish used to tell an amusing story of the days when he was Dean of Residence.

The students in those days did not have the freedom which students have today, and there were certain rules and regulations regarding nights out. A favourite joke of Mr. McTavish's was to allow the boys to escape out of a certain window, then he would sit under that window and smoke until the delinquents returned. As there was no other way by which they could get into the Residence at night, the boys had to remain outside, while the Dean sat there, apparently unconscious of their presence. After keeping them in suspense for hours, he would finally say calmly: "Don't you think it's time you came in, gentlemen?"

After leaving the O.A.C. Mr. McTavish went to Osgoode Hall to study law, and he practised as a barrister until his retirement some years ago.

He did not, however, lose his interest in the O.A.C. or the Model Farm as he still called it, reminiscent of the old days, and he watched its growth and development from a model farm to one of the greatest agricultural colleges in the world. He was present at the semi-centennial in 1924.

Mr. McTavish was a very keen Horticulturist and quite an authority on the subject.

From the semi-centennial edition of the Guelph Mercury, June 7th, 1924, is taken the following article by Mr. McTavish:

"Following the resignation of Professor Nattress in 1878, I was appointed by the Hon. S. C. Wood, then Minister of Agriculture, to the position of Resident Master and Professor of English and Mathematics, which I resigned in 1880 to enter upon the study of law.

In those years the College Staff comprised the following: Professor James Mills, President; Professor William Brown,
Forestry and Agriculture; Professor A. A. McTavish, English and Mathematics; Dr. Grange, Veterinary Science; Dr. McGuire, Health Officer.

The students then numbered about 150, largely Canadian-born, the remainder comprising English, Irish, Scotch, French and Danes.

As the College grew in popularity, through numerous lectures before Farmers' Institutes and other mediums, the applications for admission soon exceeded the accommodation then available, and several additions were made to provide more room. The centre section of the college building was elevated one storey, which not only provided more room for dormitories, but gave the building a more imposing appearance. There were also added a number of class-rooms.

In those years, the college was still in its infancy, and the Faculty gave much consideration, not only to the problems incidental to farming, but also to those of providing a working plan, capable of expansion sufficient to meet the ever-growing demand, which they then anticipated, and which subsequent years have more than justified."

SUMMER ADDRESSES

(Continued from page 631)

E. C. Martin—Apiculture Dept., O.A.C., Guelph, Ont.
W. H. Minshall—Botany Dept., O.A.C., Guelph, Ont.
A. A. McNeil—Animal Husbandry Dept., O.A.C., Guelph, Ont.
G. A. McNeil—O.A.C., Guelph, Ont.
F. K. Neave—178 Lansdowne Ave., Toronto, Ont.
R. Ogawa—c/o Mrs. F. McEwan, 109 York St., St. Catharines, Ont.
J. W. Pawley—Div. of Extension & Publicity, C.E.F., Ottawa, Ont.
J. E. Stackhouse—Poultry Dept., O.A.C., Guelph, Ont.
X. H. Wass—O.A.C., Guelph, Ont.
C. A. Wood—Div. of Extension & Publicity, C.E.F., Ottawa, Ont.
G. A. Wright—O.A.C., Guelph, Ont.
Charles James Stewart Bethune
M.A., D.C.L.
Professor of Entomology, 1906 - 1920

Entomologists and other friends throughout Canada were grieved to hear of the death on April 18th, of Dr. C. J. S. Bethune. Although Dr. Bethune was in his 94th year; he had retained unimpaired throughout the years that keen mind which was the delight of all who knew him. The end was quite sudden.

Dr. Bethune was born on a farm in West Flamboro Township, Upper Canada, on August 12th, 1838. He was the son of the Rev. Alexander Neil Bethune, second Bishop of Toronto, whose father, the Rev. John Bethune, came from Skye to North Carolina in 1774, and ministered to a loyalist regiment during the Revolutionary War. After coming to Canada with the Loyalists the Rev. John Bethune opened the first Presbyterian Church in Montreal. His sons, however, were all confirmed in the Church of England.

Dr. C. J. S. Bethune had a distinguished career in the church, in education and in entomology. He graduated from Trinity College in 1859 at the age of 21, with first-class honours in Classics and Mathematics. He received his M.A. degree in 1861 and the degree of D.C.L. in 1883.

In 1906 Dr. Bethune accepted the Chair of Entomology and Zoology at the Ontario Agricultural College, and for fourteen years remained at the head of this department, retiring in October, 1920. During his term of office the work of the department developed greatly and many students passed through his hands who are now outstanding men in their profession.

Dr. Bethune was not a great teacher, but he had a wonderful personality, which together with his venerable appearance, had a great influence on his students. It is a tribute to Dr. Bethune's influence that many of the foremost entomologists of today graduated from the O.A.C. under his regime.

All his life Dr. Bethune had been actively interested in Entomology. He was largely instrumental in association with Dr. William Saunders, Sir William Osler, Professor Croft, Mr. E. Baynes, and others in bringing about the organization of the Entomological Society of Ontario.

The headquarters of this Dominion-wide society were moved to the O.A.C., when Dr. Bethune went there in 1906. Much of the success of the Society and that of the Canadian Entomologist is due to his efforts.

He was President of the Society in 1871-76, 1890-93, and again in the Jubilee Year of 1913. For nearly thirty years he edited the Canadian Entomologist and the Annual Reports of the Society. He published a large number of articles on Systematic and Economic Entomology, also a number of bulletins on injurious insects, and for years prepared the Annual Bibliography of Canadian Entomology for the Transactions of the Royal Society.

Dr. Bethune leaves many friends among entomologists the world over. To him entomology in Canada means much. His passing severs a tie with the beginning of the science in this country. He has quietly closed a long, but very busy and useful life.
When this goes to press, yet another class will have left the O.A.C. to take their places among the graduates of this college.

We cannot, in these limited pages, list all the achievements of Class '32—all we can say is that they have nobly upheld the traditions of their college, and we know that these traditions will be preserved by them in the larger sphere into which they are entering.

To those members of the Year, who so well and faithfully served on the Review Staff, we tender our sincerest thanks. Their splendid and wholehearted support made the re-organization of the Review less of an uphill fight than it might have been, and it is due to them chiefly that the Review has regained its old position among the students and alumni of the O.A.C. While we are on this subject, it would be impossible to avoid mentioning the last Editor, Mr. W. J. Garnett, who so ably piloted the Review during the period of its renaissance. The Review Staff of this year wish him the very best of good luck in his future career.
We should very much like to write a long article about each and every one of the men of Class '32, but unfortunately we are unable to do this; on another page will be found a short appreciation of the accomplishments of each of the Graduates during his stay at the College.

Therefore to the Graduates of '32, we shall say "Au Revoir, and the Best of Luck to you in the Future."

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THE PASSING

Silhouetted black against the sky
Are the trees.
The sun, gone now, leaves a blush
Like the glow of some distant
Funeral pyre.

A silence is o'er all things.

Gradually, as light passes,
The stars shine out
To guide the soul home.

Then a frog croaks, in the swamp
Behind the willows,
And Night has come.

—S. R.

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QUESTION

Why are we,
Each with our space in life,
Fools?
It is as if some planet
Of the Universe
Goes astray from its fellows,
For a time.
Why are we gay,
Then morbid?
We have our playthings;
Pen, paper,
Brush; our tools.
Yet, at times,
We are all fools!

Ask why the Mighty Planets
Roll in Grooves;
Ask why the Tides
Suck back and forth;
Ask why the Million Atoms
From this World of ours;
I'll answer!
But why,
Why are we fools? —Richard Kent.

NEARING SPRING

The Cancer Sun sweats the frozen North
And the little stream that trickles
Down among the tombstones on the hill,
Unto the river swells, through and o'er
The lime outercroppings that mark this place.
The graves remain, inanimate, inebriate,
Edging the hill.

—S. R.
ATHLETICS

Editor, G. B. Henry, '34.

RETROSPECT

F. G. Baldwin, Athletic Director.

The 1931-32 season's athletic programme has produced twice the activity and personal enthusiasm as that of the 1930-31 season. A large freshman class has been of great help. The real reason for this decided increase in personal participation is due to the Athletic Association's policy of making it possible for and encouraging every man, big or little, to learn some kind of competitive game. The introduction of special exercise and workouts in the gymnasium has also proved to many students heretofore not athletic-minded just how quickly a normal man's muscles and body may be developed far above the average. This discovery with its added strength has also tended to encourage more men to turn out for college teams.

The past season leaves the college with the makings of a splendid rugby team, only three men are graduating, the remainder of the team being largely composed of first and second year men. Soccer is in a similar position and it is hoped that next year will find them Senior Intercollegiate Champions. Track and Harriers have had a good season; the latter, now competing officially in Senior Ranks fully expect to do big things this coming year.

The basketball team won the Canadian Intercollegiate Intermediate title, and with a team composed of first and second year men should repeat next year. The hockey team with only three or four practices managed to finish in second place in their group, a very commendable showing considering the handicap they were working under.

The boxing and wrestling team, made up of younger men chiefly, managed to beat the Queen's University Senior Intercollegiate champions in Assault-at-Arms, both at Guelph and Kingston, which shows they will be a difficult squad to conquer this next year.

(Continued on page 624)
The Seniors have reached "the beginning of the end" of their stay at Mac Hall. What a mixture of emotions the thought arouses. Though we thrill at the thought of graduation, and eagerly anticipate joining the wage-earners, yet the glamour is dulled because it means severing the old acquaintanceships and leaving all to which we have become so attached.

But we must not dwell too early on these melancholy thoughts. Their time will come soon enough, and we still have one more term to cram full with joys and experiences which will remain ever in the storehouses of our memories.

For our Senior and Homemaker Macites, and also the graduating Aggies, we wish that this spring term may be the best term ever. And for those fortunates who are remaining longer we can at least hope that this will be the second best.
# Results of Final Examinations 1932

N.B.—Numbers following total marks, indicate subjects on which the student has failed to obtain pass standing.

## First Year Associate Class

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No. 10, 22.
Smith, J. B. ........................ (Failed in 16 subjects)
Swaine, A. J. ........................ (Failed in 12 subjects)
Wellington, R. A. ........................ (Failed in 8 subjects)

List of Subjects
1. English Literature.
2. Composition.
3. Public Speaking.
5. Electricity.
7. Drainage.
8. Mechanical Drawing.
10. Chemistry.
11. Geology.
15. Field Husbandry.
16. Animal Husbandry (written)
17. Animal Husbandry (practical)
18. Dairying.
20. Apiculture.
22. Veterinary Anatomy.
23. Economics.

FIRST YEAR DEGREE
Year Standing—Maximum 3100

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3. Dryden, J. 2577
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5. Seibert, F. 2532
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19. Chisholm, R. G. 2332
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23. Green, G. G. 2302
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45. McCullough, W. R. 2104
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47. Langdon, R. M. 2098
48. Terry, J. B. 2097
49. Reynolds, J. E. C. 2096
50. MacKinnon, A. L. C. 2090
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List of Subjects

1. English Literature.
2. Public Speaking.
3. Heat.
4. Electricity.
5. Bacteriology.
7. Mechanical Drawing.
8. Farm Mechanics.
9. Chemistry.
10. Mathematics.
13. Fruit Growing.
15. Animal Husbandry (wr.)
16. Animal Husbandry (pr.)
17. Dairying.
18. Poultry.
19. Apiculture.
20. Accounting.
22. Geolog.
23. Meteorology.
## THE O.A.C. REVIEW

### SECOND YEAR ASSOCIATE

**Year Standing—Maximum 3600**

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### List of Subjects

1. English Literature.
2. Composition.
3. Public Speaking.
4. Economics (Marketing).
5. Essay.
6. Drainage and Roadmaking.
7. Agricultural Engineering.
10. Soils and Fertilizers.
13. Entomology.

---

**Conditioned on Insect Collection**

W. F. Ogilvie.

Below 60% in English

- Polland, N. A. 58.8
- Martyn, G. L. 58.8
- McAlpine, R. F. 58.6
- Boulet, J. 58.4
- O'Neill, G. M. 58.2
- Sinclair, O. W. 58.2
- Shrum, L. K. 57.8
- McNiven, W. 57.6
- Roth, L. 57.6
- Honsinger, G. I. 57.2
- Harrison, J. G. 57.0
- Murby, J. S. 56.8
- Waern, H. 56.0
- Harvey, A. E. 55.1
- McNiven, J. F. 54.8
- Taylor, H. M. 54.8
- Sherwin, W. W. 54.6
- Torrance, H. J. C. 54.6
- Outram, W. C. 55.0
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- Paterson, H. L. 52.3
- Cerswell, C. J. 49.8
- Moles, J. E. 49.4
- Perrin, W. M. 49.0
- Pearson, M. R. 47.8
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THE O.A.C. REVIEW

| 22. Dairying.                  | |

**SECOND YEAR DEGREE**

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**Conditioned on Insect Collection**

Davis, O. L.
Wetmore, R. E.

**List of Subjects**

1. English Literature.
2. Journalism.
5. Soil Physics.
6. Farm Mechanics.
7. Qualitative Chemistry.
9. Quantitative Chemistry.
THE O.A.C. REVIEW

10. Systematic Entomology.
11. Economic Entomology.
15. Light.
16. Field Husbandry.
17. Animal Husbandry (wr.)
18. Animal Husbandry (pr.)
20. Dairying.
22. Apiculture.
23. Forestry.
24. Economics.
27. Genetics.

INTERMEDIATE YEAR

Year Standing—Maximum 100%

1. Lecky, T. P. .......... 79.7
2. Weaver, L. O. .......... 77.6
3. Anderson, F. K. I. ...... 76.5
4. Frerichs, G. R. ........ 74.4
5. Ashton, G. C. ........ 74.2
6. Meredith, W. O. S. ...... 72.3
7. Potter, R. R. .......... 71.4
8. Hales, A. D. .......... 71.09
9. Heath, C. N. .......... 71.08
10. Archibald, A. W. ...... 71.00
11. Morrison, A. .......... 69.0
12. Holmes, G. B. .......... 68.8
13. Wildman, L. M. .......... 68.4
14. Bond, E. W. .......... 68.0
15. Gregg, R. W. .......... 67.3
17. Dalziel, D. A. .......... 66.7
18. Watson, E. W. .......... 66.4
20. Williams, E. C. .......... 65.6
21. Freeman, T. N. .......... 65.5
22. Bond, E. E. .......... 65.32
23. Hallett, J. E. B. .......... 65.31
24. Reinke, A. A. .......... 65.0
25. Stephen, J. A. .......... 64.4
26. Grimsey, R. J. .......... 64.0
27. Allan, W. C. .......... 63.9
28. Cost, A. .......... 63.38
29. Jackson, J. M. N. .......... 63.5
30. McCaughey, A. B. .......... 63.4
31. Cruickshank, G. E. .......... 63.1
32. Greenwood, R. W. .......... 63.0
33. Craig, F. S. T. .......... 62.3
34. Lalonde, L. .......... 61.1
35. Nos. 1, 2.
36. Goodin, R. E. .......... 60.3
37. McCarthy, G. A. .......... 60.0
38. Robinson, B. C. .......... 59.9
40. Matthewman, W. G. .......... 59.5
41. Nos. 9, 10.
42. Bradley, V. E. .......... 58.9
43. Nos. 1, 10, 13.
44. No. 12.
45. No. 5.
46. Nos. 1, 10.
47. Nos. 5, 9, 17.
48. Nos. 1, 9, 10, 12.
49. Nos. 1, 2.
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51. Nos. 1, 16, 17.
52. Nos. 1, 13, 17.
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97. Nos. 1, 9, 10.
98. Nos. 1, 6, 12, 13, 17.
99. Nos. 1, 9, 10.
100. Nos. 1, 6, 12, 13, 17.

Conditioned on Insect Collection

Duplissa, F. J. .......... 56.1
Frerichs, G. R. .......... 54.9
Gregg, R. W. .......... 54.3
Lecky, T. P. .......... 54.2
Meredith, W. O. S. .......... 53.8
Weaver, L. O. .......... 53.0
Wildman, L. M. .......... 52.8
Wood, F. A. .......... 52.6

List of Subjects

1. English Literature.
2. Journalism.
5. Heat.
6. Electricity.
8. Qualitative Chemistry.
9. Organize Chemistry.
10. Quantitative Chemistry.
15. Bacteriology.
16. French.
17. Light.
18. Meteorology.
19. General Physics.
THE O.A.C. REVIEW

THIRD YEAR

Year Standing—Maximum 100%

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Conditions

Trigonometry—
Gaukroger, G. K.
Munk, K.
Wright, G. A.
Patterson, E. E. K.
Pittis, P. R.
Wishart, J.

Organic Chemistry—
McNeill, G. A.
Read, J. C.
Ainslie, R.
Patterson, E. E. K.
Pittis, P. R.
Wishart, J.

German—
Hogg, N. D.
McMillan, J. N.

Electricity—
Harcourt, J. Y.

Algebra—
Wright, G. A.
Patterson, E. E. K.
Wishart, J.

Theory of Measurement—
Pittis, P. R.

Cryptogamic Botany—
Patterson, A. J.

Qualitative Chemistry—
Wishart, J.

Quantitative Analysis—
McMillan, J. N.

SPECIAL STUDENTS

Year Standing—Maximum 100%

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(Failed in 3 subjects)
This is a Good Habit

Eating a bar of Neilson’s Jersey Milk Chocolate every day—about 4 in the afternoon is a good time—will give you that extra energy to finish the day’s work with a swing. Vigor and good health are in this delicious chocolate and besides every one loves it.

ATHLETICS

(Continued from page 615)

Owing to the enthusiasm of Messrs. Ozburn and Boyce an aquatic team was formed and competed in a Western group meet, taking second place.

The 1932-33 season will find O.A.C.’s application in for Senior Rugby; also there will be an Intermediate Intercollegiate tennis team competing. The basketball team should be playing in senior ranks, and the Boxing and Wrestling team expect to journey to Montreal to take part by invitation in the Senior Intercollegiate Assault-at-Arms. Everything points towards a year in which every man at all interested in sport will be given a chance to carry the cardinal red and navy-blue colours in Intercollegiate competition.
AEGROTAT STANDING

The following students, who missed some or all of the examinations because of illness, were granted standing:

First Year Associate Class
- C. Dearnley
- W. D. Pole
- J. Verduyn

First Year Degree Class
- F. L. Love
- R. H. Powley
- J. E. M. Rae

Second Year Associate Class
- T. A. Douglas
- R. Leroux
- N. K. Maynard

Second Year Degree Class
- W. F. Thompson

Third Year
- A. M. Campbell
- E. S. Marr
- D. J. McTaggart
- W. I. Whyte

MEDALS, SCHOLARSHIPS AND PRIZES AWARDED, APRIL, 1932

1905 Scholarship
$50 in cash awarded by a committee of '05 Graduates at the College to the best "all round" man at the close of his third Year—G. A. McNeill, R.R. No. 3, Tiverton, Ont.

Governor-General's Silver Medal
For general proficiency, first and second year work—R. E. Heal, Petrolia, Ont. Percentage 82.7%.

George Chapman Scholarship
$20 in cash for proficiency in English (Degree Course), first and second years—R. E. Heal, Petrolia, Ont. Percentage 85.7%.

Second Year Special Essay
$10 in cash—T. Bell, Central Mart, Shoreham, Sevenoaks, Kent, England. Percentage 90%.

General Proficiency Prize—First Two Years
$10 in cash—R. E. Heal, Petrolia, Ont. Percentage 82.7%.

Scholarships of $25 each Awarded for Proficiency in Groups of Subjects as Outlined in the Calendar

First Year—Degree Class
- Group 1—Regina van der Hoorn, Cavan, Ont. Percentage 91.6.
- Group 2—G. F. H. Sumler, R.R. No. 1, Brantford, Ont. Percentage 86.5.
- Group 3—J. C. Martin, R.R. No. 8, St. Mary's Ont. Percentage 84.2.
- Group 4—J. Dryden, Brooklyn, Ont. Percentage 87.8.

First Year—Associate Class
- Group 3—J. G. McNiece, R.R. No. 2, Kars, Ont. Percentage 89.0.
- Group 4—L. S. Mathews, R.R. No. 1, Simcoe, Ont. Percentage 84.2.
Efficient, durable, water tight, a concrete root cellar enables the farmer to store roots, fruit and vegetables under ideal temperature conditions, free from the inroads of rats and other vermin. Crops can thus be held awaiting favourable prices. The following materials are needed to build an Arched Roof Cellar as illustrated.

**ARCHED ROOF CELLAR**

**Concrete Mixtures**

- Footings ....... 1 : 2½ : 4
- Wall ............. 1 : 2 : 4
- Arched Roof ...... 1 : 2 : 3

**Materials Required**

<table>
<thead>
<tr>
<th>Inside dimensions 12 by 14 feet</th>
<th>Cement</th>
<th>172 Sacks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>14 cubic yards</td>
<td></td>
</tr>
<tr>
<td>Pebbles</td>
<td>21¾ cubic yards</td>
<td></td>
</tr>
</tbody>
</table>

For each additional foot in length, the following material will be required:

- Cement .................................................6½ Sacks
- Sand ................................................. ½ cubic yard
- Pebbles or broken stone ..........1 cubic yard

Write today for literature about concrete on the farm.

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Fowler Scholarship

Highest in general proficiency in Animal Husbandry in the first two years—H. M. Taylor, R.R. No. 4, Grand Valley, Ont. Percentage 89%.

Class '21 Medal

Highest in general proficiency in Animal Husbandry in the first two years of the Associate Course—A. S. Wideman, R.R. No. 2, Markham, Ont.

Class '19 Medals for Inter-Year Debating

Class '33


Class '28 Prizes

Winners of Public Speaking Contest

First ($30)—E. H. Stoltz, Auburn, Ont.
Second ($20)—H. A. Pass, 45 Green St., Guelph, Ont.

James M. Christie Gold Medal

Highest in Proficiency—Dairy School

S. M. Carr, Campbellford, Ontario.

Toronto Horticultural Society Médals

The Toronto Horticultural Society has donated three medals annually to be competed for by members of the Horticulture Club. The form which the competition is to take will be determined by the Head of the Department of Horticulture.

Winners—T. W. Thompson, 1460 St. Clair Ave. W., Toronto, Ont.
D. M. Haight, R.R. No. 3, Norwich, Ont.
J. Rutherford, R.R. No. 1, Rockwood, Ont.

Rose Society of Ontario—Silver Challenge Cup and Medals

The Rose Society of Ontario has donated a silver challenge cup to be competed for annually in judging roses at the Ontario Agricultural College. Miniature replicas of the cup are given to the winners each year, and medals to those standing second and third in the competition.

2nd. E. C. Slater, 101 Gordon St., Guelph, Ont.
3rd. D. F. Cameron, 327 Frank St., Ottawa, Ont.

H. E. Trent Prize for Cleanliness

In order to promote cleanliness in the baking industry, Mr. H. E. Trent has made three awards of $15.00, $7.00 and $3.00 to the students who display the greatest amount of cleanliness throughout the term.

Winners—December, 1931—

1st—E. Heintz, 20 Wilton Place, Kitchener, Ont.

Winners—April, 1932—

1st—C. Foster, New Liskeard, Ont.
2nd—W. Guild, Cardinal, Ont.
3rd—F. Gent, Rocanville, Sask.
Yes sir—
Blended Right!

Winchester
CIGARETTES
Blended Right!
ADDRESSES OF STUDENTS WHO WILL NOT BE RETURNING TO THEIR HOMES THIS SUMMER—1932

First Year Associate

J. C. Anderson—c/o A. MacLaren, Norval, Ont.
D. M. Bartlett—c/o Rex Powley, R.R. No. 1, Kelowna, B.C.
J. A. P. Boyle—c/o A. MacLaren, Norval, Ont.
R. C. Chamberlain—10 Purdy St., Belleville, Ont.
H. J. Cooper—c/o G. Chidley, R.R. No. 2, St. Catharines, Ont.
H. D. L. Corby—c/o A. MacLaren, Norval, Ont.
Keith Cowles—c/o F. H. Harris, R.R. No. 1, Mount Elgin, Ont.
E. W. Cranfield—c/o A. MacLaren, Norval, Ont.
G. S. Eliot—c/o Mrs. McKeough, "Erie Manor," R.R. No. 1, Blenheim, Ont.
S. W. Fallis—O.A.C., Guelph, Ont. (Dr. Harcourt’s Farm).
H. D. Fox—c/o A. MacLaren, Norval, Ont.
N. Hanaoka—c/o I. Umehera, R.R. No. 3, King, Ont.
T. B. Harrison—c/o A. MacLaren, Norval, Ont.
W. J. Hayley—c/o M. McDowell, Oxford Centre, Ont.
G. Houseman—c/o Bank of Montreal, Yonge & Front Sts., Toronto, Ont.
C. D. Hutchings—c/o E. Petrie, R.R. No. 8, Peterborough, Ont.
H. A. Irving—c/o A. MacLaren, Norval, Ont.
S. W. Fallis—O.A.C., Guelph, Ont. (Dr. Harcourt’s Farm).
E. W. Lund—c/o W. T. Church, R.R. No. 4, Fergus, Ont.
L. S. Matthews—c/o Bank of Montreal, Guelph, Ont., and Poultry Dept., O.A.C., Guelph, Ont.
F. W. Murray—?
R. G. McFarlane—c/o A. MacLaren, Norval, Ont.
A. Newby—c/o W. R. Miller, R.R. No. 2, Dunnville, Ont.
D. Pasfield—c/o A. MacLaren, Norval, Ont.
J. D. Rawlins—c/o J. Tookey, R.R. No. 1, Beamsville, Ont.
S. L. Robinson—19391 Andover Ave., Detroit, Mich., U.S.A.
J. H. Scott—c/o A. MacLaren, Norval, Ont.
D. Simon—c/o A. MacLaren, Norval, Ont.
C. Jensen—c/o MacLean Publishing Co., Toronto, Ont.
W. A. Stephen—143 Dunn Ave., Toronto, Ont.
H. P. Stovell—c/o G. S. Taylor, R.R. No. 2, Bloomfield, Ont.
G. H. Style—c/o A. MacLaren, Norval, Ont.
B. L. Pollock—O.A.C., Guelph, Ont. (Poultry Dept.)
E. Sinclair—R.R. No. 5, Tara, Ont.
W. A. Stephen—143 Dunn Ave., Toronto, Ont.
G. H. Style—c/o A. MacLaren, Norval, Ont.
F. W. Thompson—c/o P. L. Potts, R.R. No. 3, Simcoe, Ont.
Miss Regina van der Hoorn—Box 577, Burlington, Ont.
C. B. Weeks—Troupsburg, N.Y., U.S.A.
A. Wilkes—Entomology Department, O.A.C., Guelph, Ont.

First Year Degree

J. M. Appleton—Sturgeon Point, Ont.
E. J. Coyle—O.A.C., Guelph (till May 2nd) (then home).
J. I. Jones—c/o W. Morrow, Orangeville, Ont.
M. J. Martin—Clarkesburg, Ont.
J. A. McKay—142 Uxbridge Ave., Toronto, Ont.
T. Nishizawa—51 Gerrard St. W., Toronto, Ont.
R. J. Quinn—Caledon East, Ont.
B. L. Pollock—O.A.C., Guelph, Ont. (Poultry Dept.)
E. Sinclair—R.R. No. 5, Tara, Ont.
W. A. Stephen—143 Dunn Ave., Toronto, Ont.
H. P. Stovell—c/o G. S. Taylor, R.R. No. 2, Bloomfield, Ont.
G. H. Style—c/o A. MacLaren, Norval, Ont.
F. W. Thompson—c/o P. L. Potts, R.R. No. 3, Simcoe, Ont.
Miss Regina van der Hoorn—Box 577, Burlington, Ont.
C. B. Weeks—Troupsburg, N.Y., U.S.A.
A. Wilkes—Entomology Department, O.A.C., Guelph, Ont.
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Second Year Associate

L. Butler—c/o C. R. Henderson, R.R. No. 2, Branchton, Ont.
H. C. V. Hillis—?
C. L. F. Hunter—208 Oxford St., Guelph, Ont. (c/o W. Barr).
L. G. Klein—Sir William Mulock Farm, Armitage, Ont.
J. K. Knights—Dom. Experimental Farm, Kapuskasing, Ont.
E. E. Mitchelson—187 Sherbourne St., Toronto, Ont.
J. E. Moles—Glencour Farms, Unionville, Ont.
P. G. Newell—Dom. Lab. of Plant Pathology, St. Catharines, Ont.
L. F. Ogilvie—c/o Miss G. Hatheway, St. Anne de Bellevue, P.Q.
R. C. B. Whitty—Horticultural Experimental Station, Vineland, Ont.

Second Year Degree

H. C. Aitken—5 Barnsdale Ave. S., Hamilton, Ont.
W. I. G. Alsop—c/o Animal Husbandry Dept., O.A.C., Guelph, Ont.
T. Bell—Wellington Hotel, Wellington, Ont.
H. Denis-Nathan—O.A.C., Guelph, Ont. (Working on Golf Course).
H. E. Dukelow—Dom. Experimental Station, Kapuskasing, Ont.
H. C. Dyme—R.R. No. 2, Maple, Ont.
W. T. Ewen—Dom. Experimental Farm, Harrow, Ont.
Killins, H.—c/o J. A. Aitken, 5 Barnsdale Ave. S., Hamilton, Ont.
W. R. Phillips—Hort. Experimental Station, Vineland, Ont.
J. M. Powell—Dom. Experiment Station, Kapuskasing, Ont.
K. A. Stinson—Harrow, Ont.
G. C. Young—Hearst, Ont.

Intermediate Year

W. C. Allan—?
A. W. Archibald—R.R. No. 4, Stouffville, Ont.
J. E. Calder—?
R. W. Gregg—?
R. J. Grimsey—?
C. N. Heath—Animal Husbandry Dept., O.A.C., Guelph, Ont.
T. G. Hicks—Silverwood’s Dairy, Peterborough, Ont.
J. M. N. Jackson—?
D. Lalonde—Cereal Div., Central Experimental Farm, Ottawa, Ont.
E. A. Manning—City Dairy, Toronto, Ont.
W. O.S. Meredith—Field Husbandry Div., C.E.F., Ottawa, Ont.
A. Morrison—c/o Mrs. Michael, 24 Fisher Ave., Stevenson Pl., Ottawa, Ont.
F. Munro—Field Husbandry Div., C.E.F., Ottawa, Ont.
A. B. McCaugherty—Div. of Extension & Publicity, C.E.F., Ottawa, Ont.
W. Stoddart—Field Husbandry Dept., O.A.C., Guelph, Ont.
J. Stuart—C.E.F., Ottawa, Ont.
L. M. Wildman—c/o G. M. Rennick, Vankleek, Hill, Ont.
E. C. Williams—?

Third Year

D. A. Brydon—Cereal Div., C.E.F., Ottawa, Ont.
A. Burrell—?
J. Cullen—c/o R. B. Ness, R.R. No. 1, Portsmouth, Ont.
G. J. Gaukroger—c/o E. D. Smith & Sons, Winona, Ont.
W. Godfrey—c/o Norfolk Apple Co., R.R. No. 1, St. Williams, Ont.
W. L. Hamlyn—Poultry Dept., O.A.C. Guelph, Ont.
N. D. Hogg—Poultry Dept., O.A.C., Guelph, Ont.
G. T. Hosie—Div. of Forage Crops, C.E.F., Ottawa, Ont.
F. Jerome—Drainage Dept., O.A.C., Guelph, Ont.
E. G. Kellough—Poultry Dept., O.A.C., Guelph, Ont.
E. J. King—Field Husbandry Dept., O.A.C., Guelph, Ont.
E. S. Marr—Poultry Dept., O.A.C., Guelph, Ont.

(See page 610)
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