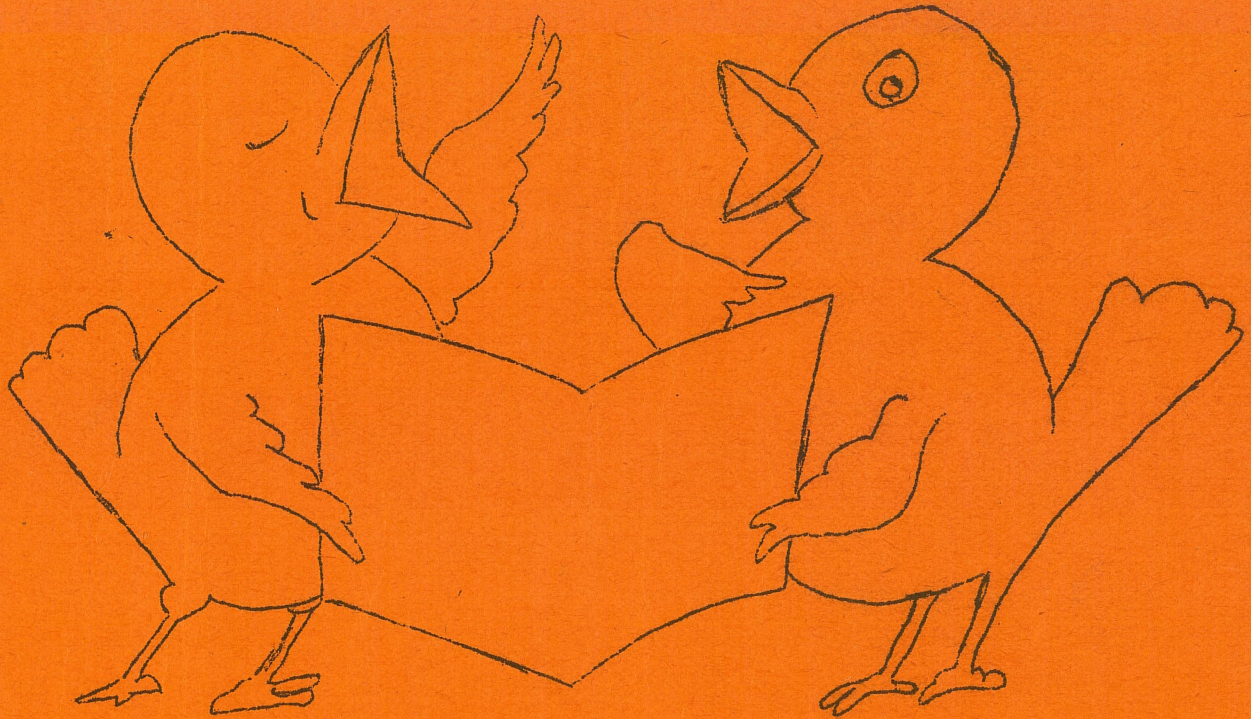
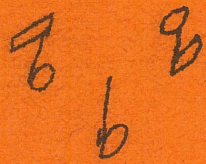


A.C. HERALD

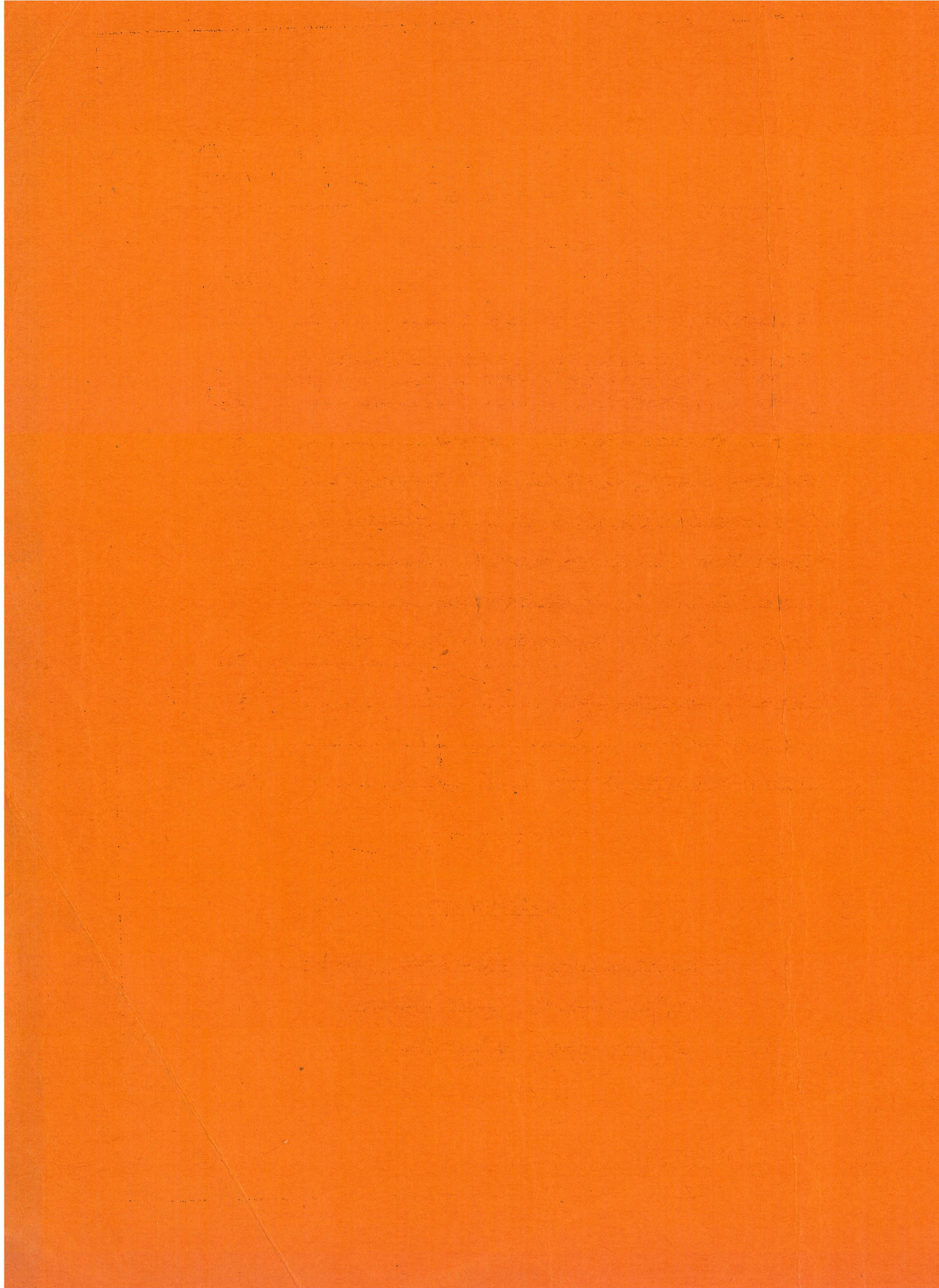
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Spring Number



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Publishers:

Stewart, Murray, McLean (H.), Baker
Roland, Peers, Powell, Horton,
Galloway, McLean (A.)

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Many times during life one finds himself in a position from which there appears to be no escape. Such a position is facing me now as editor of this paper. Nevertheless, I shall endeavor to follow that old motto "When in Rome do as the Romans do" and write a few lines as an editorial.

Thanks to the students who have published preceding issues of the A. C. Herald. They deserve much praise for the excellence of their editions. While reading these publications I was much impressed with the originality of the material contributed by the students. This factor is a desired thing to find in any college paper and we hope that they will continue to make the A. C. Herald a real worth while publication.

During the past two weeks we notice that some of the Faculty have been having a great time getting through the mud between the College and Main Street. Maybe this is just the preliminaries to making mud pies.

The author of "The Music Goes Round and Round" says that the popularity of his song is a sign that the depression is over. We very much doubt if prosperity is really worth the price.

In looking back over the past one is sometimes impressed by the different systems of teaching. The public schools of Nova Scotia certainly perform their task in a very efficient manner, yet, when a student leaves high school and enters college one of the first impressions he gets is a contrast in teaching methods. No longer is he made to study or stand in the corner. The student's time, apart from class periods, is his own. They may spend their time in study or otherwise; it all depends upon them.

This may be an answer to some of the changes that have taken place at A. C. during the past few weeks. The Juniors upon entering college found themselves subject to a different system of teaching to the one they had previously known at high school. Nevertheless, they have adapted themselves to these changes with the result that today we can hardly continue to call them Juniors. In a short time now the Seniors will depart from A. C. to continue their studies elsewhere and the Juniors will take their place. Simultaneously the Seniors commenced the College year full of ambition for whatever might be in store for them. Today they have become restless; they are looking behind N. S. A. C. to new fields of study, probably Macdonald College or O. A. C. at Guelph.

This paper extends to the Juniors a hearty welcome back to A. C. next year; to the Seniors the best of luck for the future.

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Farming in Wallace Bay District of North
Shore, Cumberland County, N. S.

This district lies between Pugwash and Wallace on the North Shore. It receives its name from a bay which extends in from Wallace Harbour. The farms are all well-drained, as practically every farm slopes in the general direction of the bay with no hills to prevent good drainage. The farms consist of the upland and every farm has a portion of the marshland which lies around the bay, comprised of 1500 acres or more with the woodlot at rear of farms.

The type of farming carried on here is mixed farming. Dairy cattle hold the place of major importance with Guernseys and Ayrshire cattle being in the majority. The milk is separated and sold as cream to the creameries on the Shortline railway, nearly all going to the Tatamagouche Creamery, which provides a summer and winter gathering service. The skim milk kept at home is used for the feeding of pigs and calves. A large number of pigs are raised throughout the year by the farmers of this district who can find a ready market for them at the Swift Canadian Company Limited in Moncton, N. B., nearly all the pigs being shipped alive by the car-load lot or by means of a truck.

Poultry is kept to a small degree by nearly every farmer, with more interest shown in the last year or two by more people purchasing day-old chicks and taking better care of them. On the other hand, geese, which a few years ago were seen in flocks of from 20 to 60, are disappearing and today are only kept by a few farms.

Foxes are another sideline from which a very profitable income is derived by many farms. One or two farms have quite large ranches and others keep only one or two pairs.

Practically all the feed for these different animals is raised on the farm, with the exception of a few concentrates, as oilmeal and bran; these are bought through the Farmers' Club which is composed of farmers from the outlying districts of Pugwash, the nearest station and village.

The hay crop is derived from the upland and marshes can be relied upon in case of shortage. Otherwise a large amount of marsh hay is sold to farmers of the outlying districts or is sometimes pressed and sold. A large amount of grain is raised by every farmer, with oats holding the largest acreage and barley coming in second place. This grain is used for meal mixture along with bought concentrates for cattle. Barley also plays a great part in fattening the pigs for market. The wheat and buckwheat grown supplies a good scratch feed for poultry.

The soil of this district is particularly adapted to the growing of roots and of these the farmers should take more advantage than they do. The most successful farmers of the district raise a

The first step in the study of the life history of the plant is to determine its geographical distribution. This is done by examining the records of the various botanical gardens and herbaria, and by consulting the literature on the subject. It is also necessary to visit the various localities where the plant is known to grow, and to collect specimens for study.

The next step is to determine the morphology of the plant, and to compare it with other members of the same family. This is done by examining the various parts of the plant, such as the leaves, stems, flowers, and fruits, and by measuring them. It is also necessary to determine the habit of the plant, and to compare it with other members of the same family.

The third step is to determine the ecology of the plant, and to compare it with other members of the same family. This is done by examining the various habitats where the plant is known to grow, and by determining the conditions of soil, light, and temperature. It is also necessary to determine the various uses of the plant, and to compare them with other members of the same family.

The fourth step is to determine the phylogeny of the plant, and to compare it with other members of the same family. This is done by examining the various characters of the plant, and by comparing them with other members of the same family. It is also necessary to determine the various relationships of the plant to other members of the same family.

The fifth step is to determine the systematics of the plant, and to compare it with other members of the same family. This is done by examining the various characters of the plant, and by comparing them with other members of the same family. It is also necessary to determine the various relationships of the plant to other members of the same family.

The sixth step is to determine the evolution of the plant, and to compare it with other members of the same family. This is done by examining the various characters of the plant, and by comparing them with other members of the same family. It is also necessary to determine the various relationships of the plant to other members of the same family.

Principles of Plant Physiology
Short Course, University of Toronto

The first of the two main branches of plant physiology is the study of the growth and development of plants. This branch is concerned with the processes of cell division, elongation, and differentiation. The second branch is the study of the nutrition of plants. This branch is concerned with the absorption, transport, and utilization of water and mineral nutrients, and with the synthesis and transport of organic nutrients.

The study of plant growth and development is a very broad field. It includes the study of the growth of individual cells, the growth of tissues and organs, and the growth of the whole plant. It also includes the study of the factors that influence growth and development, such as light, temperature, and water. The study of plant nutrition is also a very broad field. It includes the study of the absorption of water and mineral nutrients by the roots, the transport of these nutrients through the plant, and the synthesis and transport of organic nutrients.

The study of plant growth and development is a very important branch of plant physiology. It is concerned with the processes of cell division, elongation, and differentiation. The study of plant nutrition is also a very important branch of plant physiology. It is concerned with the absorption, transport, and utilization of water and mineral nutrients, and with the synthesis and transport of organic nutrients.

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- Farming in Wallace Bay District -
(Cont'd)

fairly large acreage of turnips and mangels for feeding cattle. Mangels also supply a great part of the feed for pigs.

Potatoes are not grown to any great extent, although some small lots are sold in good years, but the majority of farms only raise enough for their own use as is the case with strawberries and other garden crops.

There is, however, lots of room for improvement in the crops grown, hay and roots in particular. These crops could be brought up to a higher standard of production by the introduction of good or better rotations on the majority of farms, the planting of better seed and the more liberal use of manures and balanced fertilizers.

W. McD. P. '37

" Spring Showers "

When the spring showers came
Edged with thunder,
On the lonely silence,
Splitting peace asunder,
Heavy tumbling drops,
Pattered on the ground,
Each on his fellow
With hurried swirling sound.

Down the spring they've come,
Showers on endless showers,
Drowning out the lift of leaves;
And the song of birds;
Spattering from the house tops,
Singing in the night,
Piercing the disdainful sea,
Grey showers in flight.

Give us back the showers,
The endless showers at night,
Violetmists at dawn,
The sound of wind in flight.
We will be alive.
The grasp of winter will cease
At once, with sun and spring showers,
Blessed release!

J.V.R. '36

...for feeding cattle. ... feed for pigs.

...not known ... the fact with ...

...however, ... of food ...

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"Rafting Water"

The raft floated onward into the deepening shadows. Though it was about sixty feet long, fifteen feet wide, and made of several tiers of planks, it was guided easily by a man at a sweep at each end. Frequently during the long spring afternoon that had passed, the forward man had rested on his sweep and looked dreamily at the brown water rippling over the gravel bars, and at the wild grass on the river's bank waving in the wind and bathed in a golden radiance. At times he looked back to where the old riverman stood with one hand resting lightly on the rear sweep as if he were feeling the pulse of the stream that bore them along, and thought of the years of experience that had given him the knowledge of the river that enabled him to say, "There's a big rock about a hundred feet ahead of you, on the left side, with its top just under water. We can just graze it and clear the gravel bed to the right." As the sunlight had left the river and touched the tops of the hills, quiet dropped in with the shadows. A few strong pulls now, and then relaxation. Carried along by the river - by a great, silent force that they could not overcome, which could destroy them, yet which they had harnessed. Yet - had they harnessed it, or had they obeyed its laws, and placed themselves in line with something which at the same time was familiar and mysterious? They swung around a bend, and the man in the front gave a gasp of wonder. Behind them lay a valley with the outlines of the hills black against the sky, a valley filled with the red-gold of the sunset, and against the background of black and yellow was the figure of the "pilot" clear-cut against the glory of the heavens.

Next morning, the current was quicker, and the rock formation showed that they were nearing the falls. Both men were on the alert, taking short strokes with the sweeps and taking full advantage of the speed of the water. As they came around the bend above the falls, the younger man could see that there was a large rock in the center of the river, and he remembered that he had been told that on one side the water dropped vertically four or five feet, while on the other side the bedrock was worn away, giving a narrow channel of boiling water. As they entered the comparatively quiet water just above the falls, the pilot rehearsed the final directions. "When I signal, take a few strokes to the right; then pull her out to the left for everything that's in you. When we go over the edge, pull in your oar." The stream began to quicken again, the helper settled his feet and kept his eyes on the pilot. The older man stood as calmly as if on the dead water of a mill pond, with one hand on his hip, and the other lightly on the sweep, and the thought came to the other that, though this was an entirely new adventure for him, if he obeyed signals, the river and the pilot would do the rest. A wave of the hand, and he gave two strong strokes, and waited, though the raft seemed heading directly for the bedrock just above the falls. A vigorous wave in the opposite direction, and the forward man put every ounce of his weight on the sweep to pull the front of the raft out from the shore. From the corner of his eye, he saw the pilot bending his oar with the strokes that carried the rear of the raft around and headed it, straight as an arrow, for the channel. The front tipped, the sweep was drawn in,

- "Rafting Water" (Cont'd) -

water boiled up around the helpers feet, the raft writhed and twisted in the plunge, and all was over and they floated away from the foot of the falls. Once more had the riverman taken a lumber raft over the falls with an inexperienced helper.

In the evening, when the veil of mist hung over the river, and a few lamps gave a point of light in the darkness, and the friendly quiet of the night had settled upon the hamlet, the helper thought of the days on rafting water and of the man who had been with him. Half unconsciously, he began to hum, and then sang softly,

"Drifting with the current on a moonlit stream,
While above, the heavens in their glory gleam,
Beautiful - St. Mary's, in dreams again I see
Visions of what used to be."

J.W.B.

_____ "The Diетarian Rebels" _____

Fat I am and fat I'll be,
No more dieting for me;
I like chow that offers fun,
That makes the gastric juices run.
I crave large and juicy steaks,
Sausages and buckwheat cakes,
Biscuits hot and luscious jams,
Champagne sauce and candied yams.
I like all unhealthy things;
Let the thought of health take wings,
Clash the cymbals, beat the drum;
Diabetes, here I come!

Contributed by D.F.S. '36
(Not original material)

Basketball

On Feb. 17 the A. C. took a close game from the Normals with a score of 22-19. This game was played in the Y.M.C.A. which always seems to be a drawback to the A. C. team, who are used to playing on a larger, better lighted floor. Stewart Kinley was not playing as he had hurt his shoulder in a hockey game a few days previous.

A postponed game was played with Bible Hill on Feb. 26, resulting in a 26-22 victory for the A. C. and thus keeping up their winning spree in the league games.

On Friday, Feb. 27 the basketball team went to Halifax for their annual games with Tech and Pine Hill. They succeeded in defeating Tech by a score of 27-21, but lost to Pine Hill in a close game by a score of 20 - 17. It was a good game and was anybody's victory up till the last minute. The team was put up at Pine Hill during their stay in Halifax.

On Monday evening Mar. 2 A. C. took a fairly easy game from the Academy by a score of 25-14. The academy forfeited the rest of their games and left the league.

Bible Hill was the only team in the league to defeat the A. C. boys in one of the regular games. A. C. suffered a 26-25 defeat in their own gym. Bible Hill were behind in the first half but came up to win by one point in the end.

The next game with the town, on Mar. 9 at the Y.M.C.A. was an easier game than the first, the score being 22-15. Creighton, Town Centre, scored 12 of their 15 points that night.

On Mar. 11 the A. C. defeated the Normal 29-9. The students turned out well that night and their cheering helped our team, but was rather hard for the Normals.

In the first game of the semi-final play offs, Bible Hill defeated the Town 46-40. They lost the second 36-43 giving the Town a one point lead and the chance to enter the finals against A. C.

In the final play offs A. C. lost to the Town, the latter winning two games out of three. In the first game, Town won 24-18 and in the third 26-24. This game was very close and both teams fought hard. A. C. won the second game when Don Creelman sunk a foul shot after the whistle blew to end a second overtime period. This was the most exciting game of the season and Don became the hero of the game by sinking his foul shot. The play-off games were well attended by both students and outsiders.

SPORT NEWS

The first game of the season was played at the home of the...
The second game was played at the home of the...
The third game was played at the home of the...
The fourth game was played at the home of the...
The fifth game was played at the home of the...
The sixth game was played at the home of the...
The seventh game was played at the home of the...
The eighth game was played at the home of the...
The ninth game was played at the home of the...
The tenth game was played at the home of the...

The eleventh game was played at the home of the...
The twelfth game was played at the home of the...
The thirteenth game was played at the home of the...
The fourteenth game was played at the home of the...
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The sixteenth game was played at the home of the...
The seventeenth game was played at the home of the...
The eighteenth game was played at the home of the...
The nineteenth game was played at the home of the...
The twentieth game was played at the home of the...

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The twenty-third game was played at the home of the...
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The twenty-fifth game was played at the home of the...
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The twenty-seventh game was played at the home of the...
The twenty-eighth game was played at the home of the...
The twenty-ninth game was played at the home of the...
The thirtieth game was played at the home of the...

The thirty-first game was played at the home of the...
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The fortieth game was played at the home of the...

The forty-first game was played at the home of the...
The forty-second game was played at the home of the...
The forty-third game was played at the home of the...
The forty-fourth game was played at the home of the...
The forty-fifth game was played at the home of the...
The forty-sixth game was played at the home of the...
The forty-seventh game was played at the home of the...
The forty-eighth game was played at the home of the...
The forty-ninth game was played at the home of the...
The fiftieth game was played at the home of the...

- Sport News (Cont'd) -

The Senior class maintained their record by again winning the Harlow Cup for inter-year basketball. The first game was won by a score of 26-13, but the second was a close one when the Seniors won again by only two points, the score being 20-18.

Boxing seems to have died out, and as it is just between hockey and baseball seasons, basketball is about the only sport we see around the College these days.

D.F.S. '36

Alumni Notes

On the afternoon of Saturday, January 25, a very pretty wedding was solemnized at the home of Andrew Anderson, Guelph, when his daughter, Mary Gordon, became united in matrimony to Alexander Macnab, Senior Student at O.A.C. -- O.A.C. Review, Feb. 1936.

A recent letter from W. M. Cockburn, agricultural representative in Carlton County, gives brief news of a number of members of his class as follows:

"Those who recall Art McKenzie playing softball for '23 and the enthusiasm he put into it will be glad to know that he has lost none of his pep. As Secretary-Manager of the Maritime Winter Fair he is certainly a dynamo of energy. Instead of sitting in his office waiting for complaints as lots of officials do, Art is here, there and everywhere keeping things moving, anticipating snarls almost before they exist, and avoiding them. On top of that he made a splendid announcer at the loud speaker during the horse show in the coliseum, his explanations of the various events adding interest to the program. "Art" was married again last summer!" -- O.A.C. Review.

Desmond Dolan '35 is in the third year at MacDonald.

Edwin Bain '35 is Assistant District Representative in Victoria County.

Alexander Ross '35 is also at MacDonald along with Art MacKay '35, Gerald Hope '35 and Angus Sutherland '35.

Robert Thompson '35 is at his home in Elmsdale.

Robert Baylis '35 was at the Experimental Station at Kentville but is now at home in Scotland.

Arthur Neish '35 is assisting Prof. Harlow in our own Chemistry Department.

The senior class maintained their record by again winning the Cup for their year. The first game was played on 2-15. This was the second year since one team had won the cup only once before, the year being 20-15.

Looking ahead to the future, it seems that the college basketball season will be about the only sport to the College basketball.

Annual Report

Annual Report

The first year of the year, 1925, a very quiet year. The school was in the hands of Andrew Anderson, Oregon, who was very quiet. There was no mention in the history of the school.

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Those who recall the history of playing basketball in 1925 and 1926 will be glad to know that the school was in the hands of Andrew Anderson, Oregon, who was very quiet. There was no mention in the history of the school.

James Dolan '25 was in the college year at the school. In 1925, the school was in the hands of Andrew Anderson, Oregon, who was very quiet. There was no mention in the history of the school.

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- Alumni Notes (Cont'd) -

Norman Hoar '35 was employed in the lumber woods but due to the spring break up is now at home.

Donald Ross '35 is at MacDonald.

William Dyer '35 is chasing atoms, molecules and Graphic Formulae around the chemistry laboratory at MacDonald College where he is specializing in that subject.

Walter Hoar '35 is employed by the Dominion Pathological Branch and is at present in Halifax.

"Terry" Thompson '35 is at home.

Robert ("Bob") Murray '35 is at O.A.C. where he is taking the Dairy Short Course.

A.B.B. '36.

Things We Would Like to Know

How much dividend Creelman's stock in International (K)Nickle pays?

If Stewart still sees Blanche spots before his eyes?

If MacKenzie has decided what a reflux condenser is?

If Kinley has yet met "The Beautiful Lady in Blue"?

When we will have another test in Zoology?

If Smiley still gets up at 3:00 A.M. in order to be at work by 5:00 A.M.?

If Gorham and Campbell have started to grow feathers yet?

If Rose will give lessons on "the correct behaviour at the theatre with the girl friend"?

If McKay really lost his moustache or if it was merely at the "Laundry" getting dry cleaned?

If Creelman's boarding mistress goes away very often?

Why Durno suddenly took such an interest in dancing?

What Doc. Longley thinks of the "Germ Papers"?

If Prof. Byers is going out sawing wood after College closes?

Why Eulah didn't do Callbeck's housekeeping while the landlady was away?

What Hamilton knows about RI^2 ?

If Morrison's "Sweet Young Thing" is a Monosacharide or a Disacheride?

If Fuller's creeping movements are to frighten Prof. Harlow or do they indicate second childhood?

A.B.B. '36

Green Horn 188 was assigned in the summer of 1900 but was to
break up in the fall of 1900. It was a very good bird.
Donald Ross 189 is at present in the field.

William Dwyer 187 is at present in the field. It was a very good
bird and was very tame. It was a very good bird.

After Horn 188 is assigned to the field in the summer of 1900
it is at present in the field.

Harry Thompson 186 is at present in the field. It was a very good
bird and was very tame. It was a very good bird.

John Dwyer 185 is at present in the field. It was a very good
bird and was very tame. It was a very good bird.

How much the birds are at present in the field. It was a very good
bird and was very tame. It was a very good bird.

It is at present in the field. It was a very good bird and was
very tame. It was a very good bird.

It is at present in the field. It was a very good bird and was
very tame. It was a very good bird.

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It is at present in the field. It was a very good bird and was
very tame. It was a very good bird.

J O K E S

Rock-a-bye A.C's on the tree top,
As long as you study your grades will not drop,
But if you stop digging your standing will fall,
And down will come A.C's, diploma and all.

.....
E. Hoare:- "What's the name of the selection the orchestra is playing?"

Callbeck:- "Go Feather Your Nest".

E. Hoare:- "Go jump in the lake, I asked you a civil question."

.....
Earle:- "I'm going to a party tonight.

Powell:- "Can I come too?"

Earle:- "I don't think you'll ever come to."

.....
McKay:- "Something seems to be wrong with this engine. It--

Jean:- "Don't be silly, wait till we get off Main Street."

.....
Some people have high blood pressure, while others have low, but Creelman and a few more just hang around "Normal".

.....
We are wondering if the Zoology and Genetics isn't going to the heads of some of the boys, or is it just a factitious combination of ancestral units, or the spring fever that is causing the STRONG, HEALTHY, VIGOROUS crowing around the A. C. these days.

.....
Dr. Trueman:(after discussing "factors for feet" in Genetics Class:-
"Now, Mr. Bethune, what factors were we discussing?" Bethune was silent.

Dr. Trueman:- "Come now, the cow has four and the human two". The answer which Mr. Bethune gave broke the class up in an uproar and left Dr. Trueman with an exceptionally high color.

.....
Prof. Harlow (pointing to the formulas on the board for Carbon, Hydrogen, Nitrogen and Sulphur:- "Mr. Earle, what do they (C.H.N.S.) represent?"

Mr. Earle:- "C.H.N.S. Lord Nelson Hotel, Halifax, Nova Scotia."

Prof. Harlow:- "That'll do, that'll do, sit down you don't know it."

.....
Breathes there a man with soul so dead,
Who never to his wife hath said?
"Move over, Dear - I want more bed."

.....
First Drunk:- "When I was born I only weighed 2½ lbs!"

Second Drunk:- "And did you live"?

First Drunk:- "Sure, you ought to see me now."

.....
Old Lloyd Powell lies here in the ground,
Don't jingle money while walking around.

.....

A Riddle - What is it?

Something rather dangerous,
Something rather nice,
Something rather wicked
Though it can't be called a vice.
Some think it naughty,
Others think it wrong,
All agree it's jolly,
Though it doesn't last long.

.....
ANSWER - A Kiss.

Mr. Fraser:- "Haven't you a seat"?

Morrison:- "Yes, but I have no place to put it."
.....

Creelman:- "Give me the plural of Forbes."

Baker.(puzzled):- "Would it be two Forbe's".

Creelman: "What's her first name?"
.....

Guest at Irish home for tea.

Host:- "Here's the bowl, you can be after helpin' yerself to the
sugar."

English Host:- "Will you have one lump or two?"

Guest to Scotch Host:- "Could I have a little more sugar, please?"

Host:- "Are ye sure ye stirred yer tea enough?"
.....

Latin Tragedy (Virgil)

Boyibus killibus sweet girlorum,
Girlibus likibus wants somarum.
Popibus heribus sweet kissorum,
Kickibus boyibus out of the doorum.
Nightibus darkibus no light o're um
Dogibus bitibus pants and torum.

What's that got to do with the price of eggs?
.....

Prof. Roland (during a Bacteriology lecture):- "Ozotobacter is a--

Al. McLean:- "Yes, I had one and the wheel came of it."
.....

Mr. Byers:- "Now, if I subtract 25 from 37, what's the difference?"

McKenzie:- "Yeah! that's what I say, who cares?"
.....

What is bound to occur when a tin can is tied to a
yellow dog's tail?

Answer - The can, of course.
.....

A BIBLE - PART 1

Some think it is a book,
 Others think it is a story,
 Some think it is a law,
 Others think it is a guide,
 Some think it is a promise,
 Others think it is a threat,
 Some think it is a mystery,
 Others think it is a light,
 Some think it is a power,
 Others think it is a love.

"Yes, but I have a question."
 "Give me the answer."

"What's the answer?"
 "The answer is in the Bible."
 "What's the Bible?"
 "The Bible is the word of God."

"How do I know it's the word of God?"
 "Because it has been written for you."
 "What's written in the Bible?"
 "The Bible tells us about God and how to live."

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"Midnight Oil"

At 7:30 Roy picked up his text-books and moved to the kitchen table, walking rather stiffly, for ten hours on the log-slip and piling lumber in the sawmill extract some energy. He opened the German grammar to the place where he had been studying the night before, took the next lesson and settled down to write out sentences translating from German to English. Frequently he found a word that looked suspiciously familiar, but which he could not remember, and realized that he was going on too rapidly for the new words to settle into his mind and form associations. There was silence in the room, for his boss had gone to sleep in his chair, and the mistress was finishing her day's work in the pantry. Roy "took a five" by going to the door and looking at the river winding through the valley and drinking in the absolute quiet of the country; then he returned to his sentences. Later he did some translation from the reader, writing down the words that he had to look up. Finally he took a few minutes review over previous lessons. It seemed as if he were getting nowhere and getting "mental indigestion", but he was following his plan of going fairly rapidly, then going over the work again, and reviewing once more. At 9:30, he gathered up his books. The chances of getting up the German during the summer seemed rather remote, as he had never seen it before, but he remembered that it meant a senior year at the university, and he had faith in doggedly plugging along. Soon in his dreams, he was riding a log on his hands through white water singing "Ich habe gehabt".

Noel came up from a swim in the "Y" tank refreshed after an exciting day in No. 11 in the plant. Some green testmen had "blown shop" three times when Noel had his generators all set for a reading of instruments; he had also listened with admiring wonder to **the** oratorical flow with which Duke had cursed the mechanism of automatic elevators. Still chuckling, he attacked his problem which contained a Chinese puzzle of machines and mathematics. Half an hour later, his classmate, Andy, dropped in to compare results. They argued vigorously for ten minutes, found that some of their work checked, and both gained some light; then Andy went back to his room, and Noel began a new line of attack. Some time later, he caught himself adding two and two and getting five, and realized that fatigue was beginning to tell; so he went downstairs, found the music room empty, and took half an hour practising the "Liebestraum" on the grand piano. About 10:30, Andy reappeared for another check-up. This time results were better. They still differed in minor details - Andy wanted to put in a larger and more rigid shaft, while Noel was in favour of additional inertia added to the flywheel, but the essential conclusions were the same. That was a good night's work, and they went to work happily together on Noel's amateur short-wave set that filled a large portion of the room. Just before he went to bed, Noel examined his last negatives with a severely critical eye and decided that next time he would try to get his shadows a little softer.

Here are two examples from life. They are two men of widely different background, ability, training, and personality; Roy was a methodical, steady worker of only average brains - Noel is now a brilliant research engineer. Yet, within their own limitations, both partly accomplished what they set out to learn. Roy learned his element-

The old man looked at the boy with a slight smile. "You are a good student," he said. "I have seen you in the library before. You always have a book with you. What is your name?"

"My name is Tom," the boy replied. "I am twelve years old. I like to read very much. I have read all the books in the school library."

"That is very good," the old man said. "I am glad to see you like to read. Reading is a very good habit. It helps you to learn about the world and about the people in it. You should keep on reading. There are many good books to read. You can find them in the library and in the bookstores."

"I will," the boy promised. "I will read every day. I will try to read more books than you."

The old man laughed. "That is a very good plan. I hope you will succeed. I will be glad to see you when you are older. You will be a great man then. You will have learned a lot of things. You will be able to help other people. You will be a leader. You will be a great man."

"Thank you very much," the boy said. "I will do my best. I will try to be a great man like you. I will try to be a leader. I will try to be a great man like you."

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- "Midnight Oil" (Cont'd) -

ary German alone, in one summer's vacation, finished his course, and obtained his degree; Noel finished the year with a high rating in his work and with real advancement in music, radio, and photography. There are some essential factors in their methods of studying that are worth analysing.

(1). Mental freshness in attack. Both were more or less physically weary, but they had rested, and up to the moment in which they began to study, their thoughts had been on something far removed from the subject.

(2). Daily practice. Roy translated German sentences as regularly as he poled the boat across the river on the way to the mill; Noel practised mathematics as he had practised scales. Pitkin has said: "If you want to learn something, do a little at it 365 days a year and 366 on leap year."

(3). Short periods of rest. The mind can run at high or low efficiency just as a machine does. It would not pay to use a 5 h.p. engine on a load that only requires 2 h.p.; when one begins to make absurd mistakes, or the words on the page convey no meaning to the brain, it is time to stop.

(4). Concentrated effort. Both men worked in surrounding conditions that gave a minimum of distraction. The most of us cannot do one job with one part of the brain and another with reflexes at the same time. To try to write an essay, solve a problem, or grasp the significance of a new idea, while the radio is shrieking yodels, someone is talking about the hockey game, and the landlady is scolding one of the children might be a substitute for a bed of spikes for the Hindu, but as a means of really accomplishing anything, it is a waste of time.

(5). Individual work. Roy might have got someone to write out his sentences for him; Noel might have copied his problem from Andy. But they would have simply cut their own throats. No two people can attack a problem from exactly the same starting point; each has his own mental concepts and associations that must be linked up with the new idea if it is to be his own. This linking up can only be done by the individual. At the same time there is a very real place for comparing results, especially in mathematical problems, and in discussions - if they do not degenerate into "I don't care what the truth is; I must prove that I am right and you are wrong."

(6). Review. To go over something that one has studied and left for a short time gives both perspective and interlinkage. Unimportant details drop out, the essential factors stand out and interlock. With repeated study, the words of a new language become symbols of reality in our minds, just as our reflexes acquire the ability to swing a scythe, shift gears, or shoot for the basket.

In many ways, Noel's daily routine was nearly ideal. Perhaps it was too strenuous; it might not leave time for quiet and relaxation. He never stopped, but his variety of interests, each taking a share of his time, brought him to the place where each activity was a change and rest from the preceding one. There was no sharp dividing line between work and play for they shaded into each other, and blended into a scheme of living containing a harmony like the "Liebestraum".

111

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

1947

M. S. THESIS

BY

JAMES H. WELLS

PH.D. THESIS

BY

JAMES H. WELLS

1951

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THE UNIVERSITY OF CHICAGO

111

"MORE TRUTH THAN POETRY"

How we love to wander off in a flow of words that mean absolutely nothing. Truth and poetry cannot go together. What famous botanist was it who said:

Leaves are like words; for where they most abound
Much sensible fruit beneath is seldom found.

Two people stand on the shore and watch the dark and deep blue ocean waves roll in. The first heaves a long and forceful sigh and says "So like eternity". "Why", answers the more prosaic one, "it sounds to me more like shovelling coal down a chute".

Twinkle, twinkle, little star.
How I wonder what you are.

And the poet, instead of saying that it is a blend of H, Fe, Ca, etc. compares it to a diamond, a bird in repose, an amber, a will of the wisp, a celestial lantern, a glow-worm in the dusk, and to a score of other things. No wonder the dormouse, to be original, can only think of a tea-pot in the sky.

And when we come to the sonnet--that poetic cameo, wherein he delights to depict his lady fair, we find that the poet flowers into tropical luxuriance.

He can only catalog the features of his mistress' beauty between the golden hair and the alabaster bosom but he makes good work of those: the marble brow, the starry eyes, the rosy cheeks, the cherry lips, the pearly teeth, the ivory neck, and -- O lover's doom -- a heart of stone.

But on the whole, maybe there are advantages to this exaggeration; and dull must he be who never soars into the realm of the imagination.

By Jove! fancy a man trying to make love on strictly truthful principles, determining never to utter a word of mere compliment or hyperbole, but to scrupulously confine himself to exact fact! Fancy his gazing rapturously into his mistress' eyes and whispering softly to her that she wasn't, on the whole, bad-looking, as girls went! Fancy his holding up her little hand and assuring her that it was of a light drab color shot with red; and telling her as he pressed her to his heart that her nose, for a turned-up one, seemed rather pretty; and that her eyes appeared to him, as far as he could judge, to be quite up to the average standard of such things!

A nice chance he would stand against the man who would tell her that her face was like a fresh blush rose, that her hair was a wandering sunbeam imprisoned by her smiles, and her eyes like two evening stars.

"More Truth Than Poetry" (Cont'd)-

And then there is swearing. I do a little that way myself sometimes, but I am a mere amateur. To tell the truth -- mind this is strictly between ourselves; I shouldn't want some of the professors to know I said it; but between you and me, you know, I think it does a man good to swear.

When I hear the following on the basket-ball floor:
"Bless you, my dear, sweet sir. What the sun, moon, and stars, made you so careless (if I may be permitted to use the expression) as to allow your light and delicate foot to descend upon my corn with so much force? Is it that you are physically incapable of comprehending the direction in which you are proceeding? You nice, clever young man--you!" or words to that effect, then I know that there is going to be a mighty battle, and sit back in my chair to enjoy the excitement.

Compiled from various
sources.

1875

My dear friend, I do not know how you
will like the new book. I have
just received it and I am
glad to see it. I hope you
will like it as much as I do.

I have just received the
new book and I am glad to
see it. I hope you will
like it as much as I do.
I have just received the
new book and I am glad to
see it. I hope you will
like it as much as I do.

Yours truly,
[Signature]

Last Will and Testament

We, the members of the senior class, being of sound mind and judgment and preparing for the final exams, do hereby give and bequeath to the following our worldly possessions:

- Item: Angus Rose leaves his famous "Long shot" to Gordon Byers.
- Item: Roy MacDonald leaves his studious nature to Donald MacLeod.
- Item: Jim Wright leaves three inches of his height to Aubrey Briggs.
- Item: "Al" MacLean leaves his Scottish logic to Angus Beaton.
- Item: "Al" Grant leaves his gift of gab to "Al" Ross.
- Item: Starr Pattillo leaves his athletic powers to Bruce Trenholm.
- Item: Harvey Martel leaves his way with the girls to Gordon Sweet.
- Item: "Ed" Robison leaves somebody to no one if he can help it.
- Item: "Red" Durno, to keep it in the family, gives his style to "Sandy".
- Item: Bernard Longley leaves his moustache to Milligan if Edgar doesn't lose heart.
- Item: Churchill and Louis leave their sound effect to the highest bidder.
- Item: Willie Peers leaves his "up and at 'em" attitude to "Norman" Smith.
- Item: The author leaves his fate in the hands of anyone finding him out.
- Item: "Henning Aalund leaves his motto "Better late than never" to anyone who wants it.

We hereby wish to appoint the special class our executors of the aforesaid.

(Signed)

A Senior '37.

Letter No. 1000

In the course of the investigation, the following names were identified as having been in contact with the subject during the period of the investigation:

- 1. Mr. J. H. [Name]
- 2. Mr. [Name]
- 3. Mr. [Name]
- 4. Mr. [Name]
- 5. Mr. [Name]
- 6. Mr. [Name]
- 7. Mr. [Name]
- 8. Mr. [Name]
- 9. Mr. [Name]
- 10. Mr. [Name]
- 11. Mr. [Name]
- 12. Mr. [Name]
- 13. Mr. [Name]
- 14. Mr. [Name]
- 15. Mr. [Name]
- 16. Mr. [Name]
- 17. Mr. [Name]
- 18. Mr. [Name]
- 19. Mr. [Name]
- 20. Mr. [Name]
- 21. Mr. [Name]
- 22. Mr. [Name]
- 23. Mr. [Name]
- 24. Mr. [Name]
- 25. Mr. [Name]
- 26. Mr. [Name]
- 27. Mr. [Name]
- 28. Mr. [Name]
- 29. Mr. [Name]
- 30. Mr. [Name]
- 31. Mr. [Name]
- 32. Mr. [Name]
- 33. Mr. [Name]
- 34. Mr. [Name]
- 35. Mr. [Name]
- 36. Mr. [Name]
- 37. Mr. [Name]
- 38. Mr. [Name]
- 39. Mr. [Name]
- 40. Mr. [Name]
- 41. Mr. [Name]
- 42. Mr. [Name]
- 43. Mr. [Name]
- 44. Mr. [Name]
- 45. Mr. [Name]
- 46. Mr. [Name]
- 47. Mr. [Name]
- 48. Mr. [Name]
- 49. Mr. [Name]
- 50. Mr. [Name]

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