

# INJURED & 18 MILES FROM DOCTOR

was the predicament Miss Randall, Silver Stream, Sask., found herself in, but Zam-Buk saved her from any serious consequences. Writing of the affair, her mother says:

"I should like to tell you of an incident which proves conclusively the wonderful healing power of Zam-Buk. My daughter was using the washing machine, when she caught her hand in the cog and almost tore the top off her finger. As we live eighteen miles from a doctor, it was necessary I should attend to her hand at home. I got some Zam-Buk (which we always keep handy), put on a liberal dressing and bound up the finger carefully. From that time on, my daughter had no more trouble with the injury. We continued the Zam-Buk treatment, and not only did it prove unnecessary to call in the doctor, but in a wonderfully short time Zam-Buk healed the wound—serious as it was—completely."

Zam-Buk is equally good for burns, eczema, warts, cold cracks, skin diseases, blood poisoning and piles. All dealers 9c. box.

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Oct. 5	.....Laconia	
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N. Y. to MEDITERRANEAN	Oct. 16 (Cruise)	.....Tuscania
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Dec. 9 (Cruise)	.....Tuscania	
Jan. 24 (Cruise)	.....Samarina	
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Beware equally of a sudden friend and a slow enemy.

# RADIO EXPLAINED

BY LIEUT. JOHN R. IRWIN  
INSTRUCTOR U. S. AIR SERVICE

**Magnetic Radio Telephone Modulators.**

One of the most important inventions brought forth in the field of radio telephony during the past year is the magnetic modulator. This development has resulted from experiments made with the Alexander magnetic amplifier by the Radio Corporation while using the latter device at their large



transoceanic stations to control the output of their 200 K. W. radio frequency transmitters.

The fundamental principle of the magnetic amplifier was adopted into the modulator, and for the first time the radio amateur has at his disposal a simple yet thoroughly reliable means of modulating the antenna oscillations of a low power vacuum tube radio telephone set. Once connected to a phone set these modulators positively require no further attention. This assures the experimenter

that at all times he is obtaining the best possible results from his apparatus. It makes possible practical and reliable radio telephone transmission from a tube transmitter even on the part of an experimenter having a very limited knowledge of radio telephone operation.

The magnetic modulator is a device that utilizes the properties of iron at radio frequencies to control or modulate the output of an oscillating vacuum tube or any other undamped wave generator. The device is extremely simple in nature as well as in operation. It simply acts as a variable resistance connected in series with the antenna circuit (preferably in the ground lead) of any high frequency oscillating system.

One great advantage of this type of modulator is that it gives the non-distorting method of controlling the output of a single radio telephone. Furthermore it permits the parallel use of a number of tubes as oscillators and thus eliminates the use of special modulator tubes, with their necessary additional accessories and critical adjustments.

They are manufactured in three sizes to render service on from half to five amperes.

An illustration is shown here with

# APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

**A Portable Spark Set.**

The accompanying illustration depicts a small twenty watt spark transmitter that has been thoroughly tried out. It is a standard army set developed by the U. S. Army and was used extensively in our airplanes during the war. It is now being manufactured and distributed to the general public by a reliable manufacturer who built them for the army during the war.

The transmitter comprises a powerful spark coil with a special vibrator that gives a high pitched note, an adjustable spark gap, a pancake helix which permits variation of wave lengths from 100 to 200 meters and is calibrated in steps of twenty meters, a Dubilier mica condenser and all the necessary connections for ground and antenna.



Will readers interested in these radio articles kindly communicate with the editor by mail?

**THE LOMBARDY FAIR.**

Display of Vegetables the Best Seen in Years.

Lombardy, Sept. 16.—The annual fair held last Saturday was a great success. The weather was ideal and many took advantage of the fine day to spend the afternoon at the fair. The exhibits were well up to the usual standard, the display of vegetables being the best shown in some years. Horses and cattle were an average exhibit. The sports and baseball game attracted much attention. The marriage of Miss Gertrude Dermody to W. Deslauriers, has been announced to take place on

**CHRONIC CASES OF SKIN DISEASE HEALED LIKE MAGIC**

**BARBER'S ITCH**

Gentlemen—This is to certify that I had a very bad attack of Barber's Itch and when on my face. I doctored with three of the best Doctors for two months. My face was so swollen one Doctor said I had the same and another said it was Erysipelas. I got so bad I could not see my face. After using four boxes of Vainment, after using only one box I was completely healed. (Sd.) **DAN RUBE**, Welland, Ont. 46 AT 412 DRUGGISTS.

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# Quit Making Faces At Your Meals!

**Ironized Yeast Gives the Stomach Natural Digestive Power!**

There's one organ in the human body that "ticks back" when it gets weak, and that's the stomach. No stomach on earth can operate without its natural food—iron. The same thing is true about the nerves. There is hardly anything that can happen



No Reference to Canada on Lord Simcoe's Tomb.

It was a somewhat startling statement made by a speaker at the Ontario Historical Society's recent meeting, that on the tablet at the tomb of Governor Simcoe at Exeter, England, no mention is made of his service in Canada. The speaker, Mr. Frank Leonard of London, Ont., was moved to indignation, which, he said, first took the form of causing him to scold the janitor. That, of course, did not avail anything, but the Canadian people might well take cognizance of the basis of his complaint.

Simcoe, as founder of Toronto and first Governor of the new Upper Canada, exercised a great influence in his day, and his name is freely perpetuated in this province. He was a constructive statesman of high order, bent on laying solid foundations for the new colony, opening a Legislature, building roads, preparing defenses. His long struggle with Lord Dorchester over questions of policy ended in his return to England after five years here, and his ultimate service elsewhere.

The people of Ontario have scattered his name generously in various directions. We have a county, a town, and a Lake Simcoe; Toronto has a Simcoe street and John street, after his first name, and so on. There is a string of township names which are, in one way or another, connected with the Simcoe circle. Wolford, in Grenville, is named after a property of that name in Devonshire belonging to Governor Simcoe. Yonge township, and doubtless Yonge street, in Toronto, recall Sir George Yonge, M.P. for Hohlito, in Devonshire, who was a personal friend of Simcoe. Russell county was named after Hon. Peter Russell, who came to Canada with Simcoe in 1793, and was Acting Governor for two years after Simcoe's departure. York township was named by Governor Simcoe in compliment to Prince Frederick, Duke of York. Newark was the name which Governor Simcoe tried to substitute for Niagara, but the people preferred the latter, and the name Niagara was formally reinstated by law after he had left in 1798.

A minute search might extend the list indefinitely, and yet the builders of the Exeter tablet ignore all this. The protest at the Historical Society meeting is timely.

**Wild Pigeons.**

The news which came from Pictou the other day, that a flock of wild pigeons had been seen in Prince Edward County, Ontario, must have been a surprise to bird-lovers, as that beautiful creature, once so plentiful, had been considered, like the buffalo, all but extinct. Early records of the pioneers make many references to the wild pigeons, and, indeed, they were so numerous as to be, at times, a pest and a menace.

Conditions in Ontario may be inferred from the book entitled "Sketches of Upper Canada, Domestic, Local and Characteristic," by John Howison, published in Edinburgh in 1835, from which the following is taken:

"Immense flocks of the passenger or wild pigeon frequent the Long Point and the other parts of Upper Canada during spring and autumn, and myriads of them are killed by farmers or caught in nets by the Indians, for they fly so dense and in such numbers that twenty or thirty may sometimes be brought down at a single shot. Yet the multitudes that are to be met with in Canada are trifling, indeed, when compared with those millions that visit the United States, where, according to Wilson, the ornithologist, they sometimes desolate and lay waste a tract of country forty or fifty miles long and five or six broad by making it their breeding place.

"While in the State of Ohio he saw a flock of these birds which extended, he judged, more than a mile in breadth and continued to pass over his head at the rate of one mile in a minute during four hours, thus making its whole length about 160 miles. According to his moderate estimate, this flock contained 3,350,000, 275,000 pigeons, a number altogether inconceivable, and almost beyond belief were we not in possession of indisputable authority which proves that this conclusion was not exaggerated."

**HUGE REPTILE STARTLES GIRL**

**An Unknown Reptile Seen in Marsh in South Hastings.**

The Bancroft Times in its issue of this week has the following item in reference to the appearance of a huge reptile in North Hastings.

Considerable commotion has been caused among the residents of Port Stewart district over the appearance of a huge reptile which gave chase after a young daughter of Mr. and Mrs. William Prantice recently.

This huge reptile appeared in what is commonly known as Conroy's Marsh, near the Burned bridge on the Mississippi branch bridge, township of Reginald, county of Renfrew. Miss Prantice was in the act of putting a halter on a horse when the reptile suddenly appeared and made for her. In its course it ran under the horse, frightening it away, leaving her with the halter in her hand. The girl, frightened, also made haste, the monster giving chase, but not being able to run quickly she managed to get to a place of safety and soon reported the occurrence to members of her family.

This strange occurrence brought old residents out who have investigated and who are baffled to know just what species of animal it is, as it has failed to put in an appearance since.

From the description given by those of the residents who have investigated, the monster appears to be about seven feet long making a trail in the mud about ten inches wide, with foot imprints at either side about three inches across and from fourteen to fifteen inches apart, similar to that of a crocodile or an alligator.

Those who have investigated are under the impression that this monster has escaped from some show park along the Ottawa River, followed up stream to the Madawaska River and landed in Conroy's Marsh where last seen. The marsh is an excellent feeding ground for a reptile as described, there being plenty of frogs and grass snakes.

Residents who have lived in the district for over forty years have never seen track of an animal similar to this before and all who investigate the above.

**Unnecessary.**

In a railway smoking compartment an old gentleman and a young man sat side by side. After some miles of travel they fell into friendly talk, and finally the old gentleman filled his pipe from a big pouch and lit up. The young man took out his pipe. "Would you kindly oblige me with a match?" he said. The old man gave him a match, and the young man began to search his pockets. "Oh," he said, with a sheepish smile, "I haven't got any tobacco with me." "Then you won't need the match," said the old man, and reaching out his hand he took it and replaced it in his match-box.

**Tobacco and Its Flavor.**

Tobacco owes its flavor largely to the process of curing which the leaves undergo after being stripped from the plant. This process has generally been attributed to the action of bacteria, which have been found in considerable numbers on the dry leaves, or to that of ferments developed by the leaves themselves. Recently, however, it has been shown that the so-called fermentation of tobacco is simply a process of oxidation in which iron salts play an essential part as catalytic agents, without the intervention of either bacteria or ferments.

**A Lightning Flash.**

A lightning flash may be of any length from 1,000 up to 25,000 yards, yet in no case does it last more than the hundredth part of a second. It is the impression which the blinding flash leaves upon your eye which makes you believe that its duration is so much greater.

**Trustee Resigned.**

At the meeting of the Gananogue Board of Education a letter was read from C. T. Darling in which he tendered his resignation as member of the board, as he is leaving Gananogue to take up his residence in Kingston. The resignation was accepted. Garfield Woods was appointed his successor.

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