In His Latest Book, Sir Robert Hadfield, the Pioneer of This Type of Steel, Tells Stories Which Will Fascinate Every Young Engineer.

A new giant flying-boat, built of leadership of Count Byron de Prorok, stainless steel, recently made its trial which hopes to penetrate into the alfalfa is its richness in the expensive taken over the Royal Air Force. This event marks another milestone in the history of the most important development in modern in-

dustry-the discovery of alloy steels. We have left the age of iron behind. to the past than to the present. This is the age of special, or alloy, steels. These steels have revolutionized

tian the French variety and were mysterious nomadic people descendinough the latter were thicker and dians. They have fought every for its ash content. It may not be better his distinguished companions. They most valuation qualities. I take pro- in turn, is prepared to assure safety sity of using a large proportion of

cess is continued it becomes britten to the time of in escart if a mindred expensive concentrates in his rations. Its inventor, of course, was well men and three in white rings ed in any way.

and enables many connested funfield Corporation Tramways in Fitz | deceitted natures alan Square. This lay-out is in the

wirks. The first manganese steel six Yars. At the end of this period the lay-

out was still good for several years hard wear, but additional tracks were required for increased traffic. A larger lay-out, also of manganese steel. for twelve years. e il steels are also used in et banding, and have helped the retania to set up her fine Atlan

The use of high-tensilri con steel in making the upperdick structures of this great ship efficied a saving in weight of some 2000 to 300 tons, while also giving an appreciable increase in strength warships, manganese steel, non-magnetic, has been and of value for those portions of tructure close to the magnetic

Rust-resisting steel has proved its usefulness in a wid v of way. Countless thousand so wives agree that there is no aving device to compare with the form of stainless knives wat as is the part that allo already play in the world, bable that they are only at the

ig of their career. impossible to predict the ex which the use of alloy steels leverep and become of still furdirection is showing that the posities of alloy steels are as yet outed very incompletely; the total as of enormous extent, and by . * ater part of it is still

: from the special purposes they serve, however, alloy disaster. are of inestimable importance relation to the problem of the ..d's iron supplies. Prof. Gregory il-khown geologist, has stated the consumption of iron an goes on increasing at the sambefore the war the supply o will probably be exhausted in *** 150 rears.

story of the discovery of man

aterd, which began the new . ince in itself. a mistake, by which steel ning silicon was used for makpair of rolling-mill pinions, made young Hadfield wonder her there might not be possibiliin a combination of steel and clements.

r an experiment with silicon. neger, and iron, he decided to offect of manganese alone updiscovery of manganese steel. further experiments with d to Sir Robert Hadfield's text are at triumph—the invention o sili on steel. The use of this steel for transformers and other electrical at paratus is calculated to have effect ed a total saving of about £140,000, bon he reducing energy losses. a bed record for one man, even if he La I dog - nothing else.

And they Sir Robert Hadfield has added to his great services to industrathe moderation of a volume which covering petroleum, which would rewill talk as a standard work on the subject which he has made his own ' Metallut. : and its Influence on Modorn Progress" is a book which must by very student who is in terested in engineering and in scien time research as applied to industry.

Cutting His Sermons Short. A minister who lived in the suburbs said during his discourse:-In each blade of grass there is a

Late in the following afternoon a member of his flock discovered the good man pushing a lawn mower about his garden and paused to remark:--"Well, parson, I am glad to ob- | Spear maple, elm, oak, malnut, asu serve you engaged in cutting your leadar, white or Scotch plan, Wirway

sermons short." proximately 1,370 to 2,335 lira per | rector of Extension, O. A. College. hectare. Austrian pine (called black pine in Italy and France since the war), is the favored species for such reforestation operations. The plan is to leave the most inhospitable sites to fill up naturally as time soes on

while spreading the planting over the

rest of the forest.

the Sahara

A trail has been laid in the Sahara Desert for the expedition, under the

before penetrated.

Almost all the way the trail is a per cent of crude protein, or 113 per on him was by men. kilometres apart. Golgotha -- the road lined with skele- cent of digestible crude protein, calmified by the intense heat, much as hay, 75; timothy hay 39 corn sil- an English Q.C. and member of Parbodies are sometimes preserved for age, 1.1, and among the grains, oats, years in the ice

explored by Europeans, is theoreth it is not necessary to feed so much cally all French territory. Actually, grain or concentrates when alfaita is it is the empire of the Touaregs, a used as the fodder. ed from the Lybians and the Numi- able for its A and B vitamines and announced and coupled with those eign intruder from the days of the in these respects than the clevers, duly appeared, and continued to ap-Cartillzinians. Romans and Vandais but it has a recognized value when pear as instructed in every issue of tered into treaty relations with many and use of the greatest possible quan-

The very direct They have wash as there is always a big demand for prosequel was an order that stee. .- in their home is issue with the beart of tele-rich feeds such as bran, shorts, the desert, where the imited supply middlings, offcake meal, cottonseed of water is reserred for dranking pure ! meal, gluten meal and other similar poses and is kept in the water bags feeds. These feeds are always more slung on the backs of amels and or less expensive and it is sound form of a man mass nie manuasting stitutes for them in so far as poss me. with that if the Arabs who are "of- The farmer understands the situa ion t. i.s. which would be quite imprate the much lighter than a sumburned and naturally turns to leguminous were the trackwork of ord. | European" If one judge them by crops, particularly the clovers, to out their eyes these natives appear to be down his feed bills and, at the same all that is desirable in the human time enrich his soil. He realizes that race, the neartiful ves Captain his home-grown grains and his " Priest notes bede their jegicus and and roots are low in prot in French occupation has a tered to are high in price. Therefore, he is a large - Atent the life of the Touares interested more and more in ar inco. on the system pass over it so people For one thing prior to Euro- creased supply of home-produced hard is the wear on this particular | pean advance into the desert, money feed high in protein. It is also a

s on that the carbon-steel rails | was seldom used and little known, that these leguminous feeds are losh Barter and exchange those methods in mineral matter so not esart to of business peculiar to savages production, reproduction and gen ral -in some cases even every few served for all transactions. Cowrie health in herds and flocks, and the shells, it is reported, are to be seen lay out installed was in service for | in use to this day in the markets of most palatable of all. the desert towns, where silver is far from plentiful and paper money is looked upon with suspicion. Of the country, which is almost as large as the United States, and espewir therefore installed and lasted runs through it, even less is known than of the inhabitants. "How many people," observed Count de Prorok, "realize that there

is a mountain range as high as that of the Alps set down in the middle of called, consists mostly of extinct velcanoes, snow capped in winter. This is not really as surprising as it as much fibre. It is a roughthere, it Queen sailed by discreetly and withsounds, for the Sahara climate, insufferably hot during the day, becomes so cold at night that one's

water will freeze in his bottles." loftiest Sahara peak. Count de Prorok has engaged a Swiss guide to go to prevent waste or danger of ov r- drawn and pale, said, in a strained along, because of the mountain climbing that is to be done. reached the expedition will endeavor sheep and many feeders have cut exactly to locate Mount Gyri, "the down, or cut out, their corn acreage in dulcet tones replied, "Indeed, Mr. whence came the historical emeraids and beef cattle, from one-half to and must find Him before three to-day, trade with ancestors of the Touaregs. of live weight, according to other to send you down!"

One of the principal purposes of the expedition will be to find out more about the Touaregs. It is intended to take films of them, for the first time, showing all their ceremonies and sacred dances. M. Chapuis, | vides protein-rich succulence in the ping red halr, dashing past the one of the members of the party. Is most palatable form. The crop will cheering crowd to get to his bathingan expert in these matters, having produce more feed cut and fed as a van. lived among the tribes for eleven vears. The friendly chieftains are collecting "actors" who will take part in the filming of their own history and legends, many of which are sensational. The French film "L'Atlantide," founded on the novel of that name, is simply a Touareg story Rider Haggard's "She" and the city supposed to have been the capital of

the lost continent of Atlantis, are likewise matters connected with Touareg history and legend. A peculiarity of the tribe is that. though the men are nagnificent fighters and of immense courage, if have all important rights. A man name. It is the daughters, and not the sons, who inherit. The men are monogamous, but the women may have as many as six husbands-and It is the men who go veiled! There

are only two classes, nobles and De Prorok is confident of finding emeralds. Also he has hopes of dislutionize the Higgar and all the urrounding desert. The possibility. of a railroad is discussed hould prtreleum be found. would be a terrific feat to accomblish." Count Prorok admitted, "but would prove a gold mine."

shady Trees For the Farm. Costs trees about a farm home add mento the bequir, confort, and sa in some of the slower grow a

spruce. Colorado Blue Spruce, apr or pear trees, planted shout buildin. Reforestation In Italian War Zone. and along drives, setting in groups, It is reported that reforestation of leather than in rows, will give charthe areas in Venetia devastated dur- acter to the farm home and will overing the war, which has been going on | come the cheerless aspect so common for about two years, is costing ap- in some places .. - L. Stevenson, Di-To fell a large mahogrny tree : usually a day's task for two men. project from the trunk at its base

EXTENSIVELY GROWN.

Only Hardy Seed Should Be Used and Plenty Is Now Available-Important Points to Consider.

(Contributed by Ontario Department Agriculture, Torunto.)

One of the valuable features of mountain ranges in the Hoggar coun- proteins. When cut at six or eight try, into which no white man has ever inches in height, we have found it to contain 25 per cent. of nitrogenous Eight swift Mahari camels have matter, that is, one-quarter of the falfa contained on the average 15.5 carpet swept, and all attendance up-

9.7; corn. 7.5; barley, 9 if and wheat ther society was flocking at a parti-The Hoggar country, as jet in bran, 12.5. It will thus be seen why

fed with concentrates.

The French Seremment roughage, which obviates the neces-The Totales tompiexion is economics to attempt to produce ubknows that protein-rich concentrates

best of them is alfalfa. It is the

cially when they are idle or compora- his difficulty to Lord Charles, who tively so. Of course, the har should asked the Prince to leave the matter i be well cured, preferable to the oil method, and generally spacking the some feeders forget that it is a deli out comment. But before the Hoggar is actually ration for all classes of cattle and Him."

This mountain was rediscovered by feeds fed, proves very valuable in will traverse the scene of the used as part of the winter ration.

Alfalfa Soilage. As a sollage crop nothing excels alfalfa. It grows rapidly and produces several crops in a season. Green soilage crop than in any other form. for fattening sheep can get no better green feeds for all classes of negs. from the youngest pigs to oler

a very satisfactory feed for the work-ing horse because it has a tende cy grandsires, had a rather pleasing Clubbing cause washiness.
Alfalfa, in such form, provides in many who found themselves in want Rates to cause washiness. Itself a narrow ration, being very high of money.

in protein, and should be fed, along | only comprise a part of the ration or a 100-franc note. along with some dry hay and grain. When feeding to cattle and sheep, it is well to start with a small amount and that dry, as there is some danger of bloat if large quantities are fed wet in the beginning.

Ask for Circular 48, on Hardy Altalfa and get the rest of the story of this wonder crop. Told by Melba.

Dame Melba tells this story herself, otherwise we might perhaps She was travelling on one of her everyone who plants potatoes to make a thorough examination of the stock willon Battery Service and Garage stuff. Avoid over feeding. hesitate to do so. tours through the United States, and a thorough examination of the stock addressed a bright-looking boy as he before planting. If people plant dispassed along the Pullman car selling eased potatoes they are committing newspapers. The boy became confi- a crime, because they are propagating dential, informed her that he was a disease in the district which may Cook's Regulating Compound with his widowed mother and sister other grower's crop. With diseased in the town to which, as it happened, Dame Melba was herself going. The boy interested the singer, who

"Have you ever heard of Melba " "Sure!" answered the lad. "Well, Melba's singing to-night in your city," she went on, "and I'll give you a pass for yourself and your mother and your sister, so you can hear her sing." "And who might you-be?" asked the boy opening his eyes wide. "I'm Melba herself."

the Famous

It is well known that the famous soldier, Lord Roberts, was extremely uncomfortable in any room where

there was a cat. Lord Strathnairn, who was also a gallant soldier, experienced the same sort of feeling in the presence of ladies. He had, of course, to meet, them in society, but he would not have them in his rooms or near him, been employed in laying the trail, dry matter of the crop was crude pro- in his domestic life. When he stayed leaving the north coast of Africa and tein. The amount naturally decrease at a certain hotel in Paris he gave carrying with them provisions and ed as the plants matured, due to the strict orders that no female servants gasoline into the depths of the desert. development of the abre, but in the must do any duties connected with Supplies were placed in depots 500 early blossoming stage we tound al- his rooms. His bed was made, his

It is a wonder that in the resurgence of women's influence the equestons of explorers and adventurers culated to water free basis in the trian statue of this highly-nervous who have died of thirst or by native hay condition of dryness heart and yet brilliant soldier should have retreachery. The return journey will Morrison in Feeds and Freding mained peacefully at the top of lead past the place where a whole give the per cent of digestible pro- Sloane Street, where for many years

Baron Huddleston, well-known as cular period. He went in the company of the Duke and Duchess of Manchester. On his arrival he proceeded to the newspaper office Furthermore, the alfalia is value make sure that his name would be the paper during the visit.

Shortly, however, a small boy in an | Eton suit called at the office to report that Mr. Huddleston was angry because his titles were only partially given. Q.C. was all right and M.P. was all right, but two others were missing. The messenger had the pro- Rockies. To be fully appreciated they Most home-grown concentrates, and per titles written down correctly in must be seen. To start out on a trip Captain feet. I Prost, who paid many of the roughages, are carbona- English, which the office only imperfeelings may be imagined when dire a visit to the Tollardes (we or three ceous feeds which in themselves, ven feetly understood. The corrected ing the war, he saw in an interacted 'years also describes the girls as is mixtures, do not make for properly form duly appeared and read: "Herpaper a picture of a soldier builty a most attractive in 199-arrance, but balanced rations and, consequently zog and Herzogin von Manchester, Herr Huddleston, Q.C., M.P., Tufthunter and Toady, Hotel de Russie. of some talent unpossessed, and, among others, the "divine Sarah" Bernhardt and Oscar Wilde may be

quoted, with authority that cannot be questioned, as having such a foible. Sarah like to be thought a scuiptor, but though many people, including her models, saw her, "mess, about" a little with damp clay, no one ever seems to have seen her actually do any serious work on a bust. No wonder, for Emile de Girardin declared it was all a sham. Yet her studio or salon was full of busts of different folk!

A notable foible of Lord Charles Beresford, or "Charlie" as he was familiarly called among his friends, was his love for risky practical jokes and buffoonery. He was an intimate of King Edward from his early days. When the Prince set up housekeeping at Marlborough House, his mother, Queen Victoria, came over Alfalfa hav stands at the head of for a visit of inspection. There was the hay list in value for dairy costs, a comfortably furnished smoke-room, sheep and lambs, beef cows, groting and, as the Queen abominated smokcially of the mountain range that young cartle, breeding buils, and ...ay ing, the Prince was wishful to keep be used with care for horses, e per her out of this room. He confided

in his hands. Later the Prince piloted his mother second cutting is of fir. r quanty than round the house, and in due course the Rock es the most perfect gem of the Sahara? The Atakor, as it is the first. Good alialia hay - just n- arrived at the smoke-room. On the der wheat bran in die and crais door they found written in chalk, Rath Edmonton the Capital of Alprotein, but shows about there it is "Lavatory, Under Repair," and the

roughage and throw too much of it | One of the famous "Jowett of Balto their stock. A small terkfin of high's" foibles was that he did not good alfalfa hay contains more wal suffer fools gladly. He was noted The expedition intends to scale feed value than a big bundle of his broad views, and, presuming Port McNi oil, ben train to Toronto, average timothy or mixed may and on this, a youth whom he knew as a here the trip and terminate. so it should be fed with more care | Smith, with brow corrugated and face feeding. Alfalfa hay, corn share and thin voice: "I've been looking for

Jowett locked at him blandly, and for which the Carthaginians used to | pound per day per hundred pounds | or I shall be reluctantly compelled

a French expedition under Col. Flat- mixed rations. For sheep, either at- for many foibles. In his early days Dean Similair Laird, Macdonald Col. But the colonel and tening lambs or breeding evens, from his father tipped him out of a rowninety men were murdered by the two to four pounds per day will be boat into the Solway, and left him Touaregs, who, it is said had first | relished. For horses, not over one- | to learn to swim. He became a wonhalf pound per hundred pounds hive derfully strong swimmer, and glor--a poison that makes its victims hys- | weight, preferably mixed with other | led in it. At Etretat he swam so terical and uncontrollable to the point hay or straw, is safer than too much. far out to sea that the townsfolk who of madness. The present expedition | And for the old sows, it may also be saw his red head go out of sight in

the dim distance concluded he would be drowned. Faure, the famous baritone, rushed off for the police and officials, and a great crowd greeted his return. alfalfa cut and carted to all stock | must have been a fine sight. Swinkept stabled during the summer pro- burne in bathing drawers and drip-

Swinburne's swimming may hard-Mature cattle may be fed up to fity be called a foible, but his vanity or sixty pounds per day of this green over his poems, his excitable ways, feed along with other feeds Calles and his lack of control, especially in and younger stock do exceedingly the matter of drinks, was very eviwell on alfalfa as green feed. Slow dent. Mr. Watts Dunton took him in

hand and "reformed" him, but he feed, and it is among the very lost | became a pale shadow of his former interesting self. The elder Dumas, who, although breeding stock. Green alfalfa is not | not an Englishman, was & well-

Generosity, however, almost bewith home-grown grains, a little hay came a mania with him. On his or corn silage to cattle. Sheep will table he would keep a big bowl filled handle it without much difficulty and, with gold coins so that his friends

f course, it naturally is only a sup- | might help themselves. It was often ! plement to the grain ration for hogs, speedily emptied and it was just as Mail and Empire.... 5.00 but, as such, it will cut down the readily refilled. If a poor beggar Toronto Daily Star. 5.00 6.35 sang a lament under his window, it | Montreal Fam. Herald tally. If fed green to horses, it should was good for a shower of gold pieces Thriftiest English Town?

Plymouth claims to be the thrift- PREST-O-LITE SERVICE! lest town in England. Its people have purchased 1,675,000 Savings Certificates in four years, an average of two per head per year, as compared with one and a half for the rest of the country. ATT DEED & 1094

Don't Plant Diseased Potatoes. seed potatoes being offered in many markets and by many who soll direct from the farm, it will pay the grower to put on his specs and carefully look over the offering before ordering shipment.—L. Stevenson, Director of Extension, O. A. College.

Wonderful A husband telephoned to say that A husband telephoned to say that

All could not get home to dinner.

Late as it was it would be much later of farm, stock, etc., property of A hefore he had finished his business. Neilson lot 3, con. 7, Esquesing, Lp. m. "Here!" retorted the boy, scorn- wife, sympathetically fully. "Cut that stuff right out! you can get snything done at all will! cut the tree off ten or fifteen feet Melba! Why, she's a good looker! that jazz band playing in your washing and washing the short washing and washing

W AN OPERATION

Mrs. Dayman Gives Lydia E. Pinkham's Vegetable Compound the Credit



that. I had seen Lydia E. Pinkham's band that I thought I would try it. that I might get some relief, if not a had not taken one bottle took five bottles and hadbetter health. Now I have three girls and a boy and have done my work up to confine-I am now at the Change of Life and owe my good health to Lydia E. Pinkham's Vegetable Compound. take a bottle when I think I need it. -Mrs. Susan Dayman, R. R. No. 5, Colborne, Ontario.

Sold by druggists everywhere. C

ACROSS CANADA AND BACK.

Marvelous beyond conception inaptly describes the glories of Canada's Wear Sinclan Laird, of Macdonald thege, an experienced Rocky Mouna straveller, too the third year in Many a celebrity has been jealous succession, has midertaken to conduct a party through this glorious wonder-

> A species in a redicting, standard is ivation compari-. It should hatered, to leave 19 - vi the Canadian S or will be made Fat William, at a greatest Beach the p p-W: m2 15: 11 g -1 cd - 1 Cartstiv I SHIK A con a stangest

A to those specionular drive ma; hough Kentinay Lake Nesser, it is minercial centre of chair. Bash sa humbia; then age to Doukhalor country to time; shirp ovely Okanagan on a thence by

as such as each beautiful cowhere else

or one; Lok Lans the Pearl of corery to the world; another day at anta: Saskate on the city of optimm; Devils Gep Camp, on the Lake to the Woods, mean Kenora, thence to Fig. Walcom where one of the fine anadiar, P., off Steamers will be used cross lake Superior and Huron to Everything is included in the price

1 \$330 00, i: m Toronto: transportathen, sleeping cars, accommodation in a few roots make an ideal rough go God everywhere, and I can't find potels and tungalow camps, meals in amers, hotels and on steamers, and sight-seem glows at points visited. The trip is open to all, and applica-Mountain of Precious Stones," where alfalfa does well. For dairy Smith, I'm sorry to hear that. You tions for accommodation are being re-

Fares from other points than Torono will be name I, and descriptive illus-Swinburne, the poet, was notable | cated backled sent on application to ge Post Office Que.



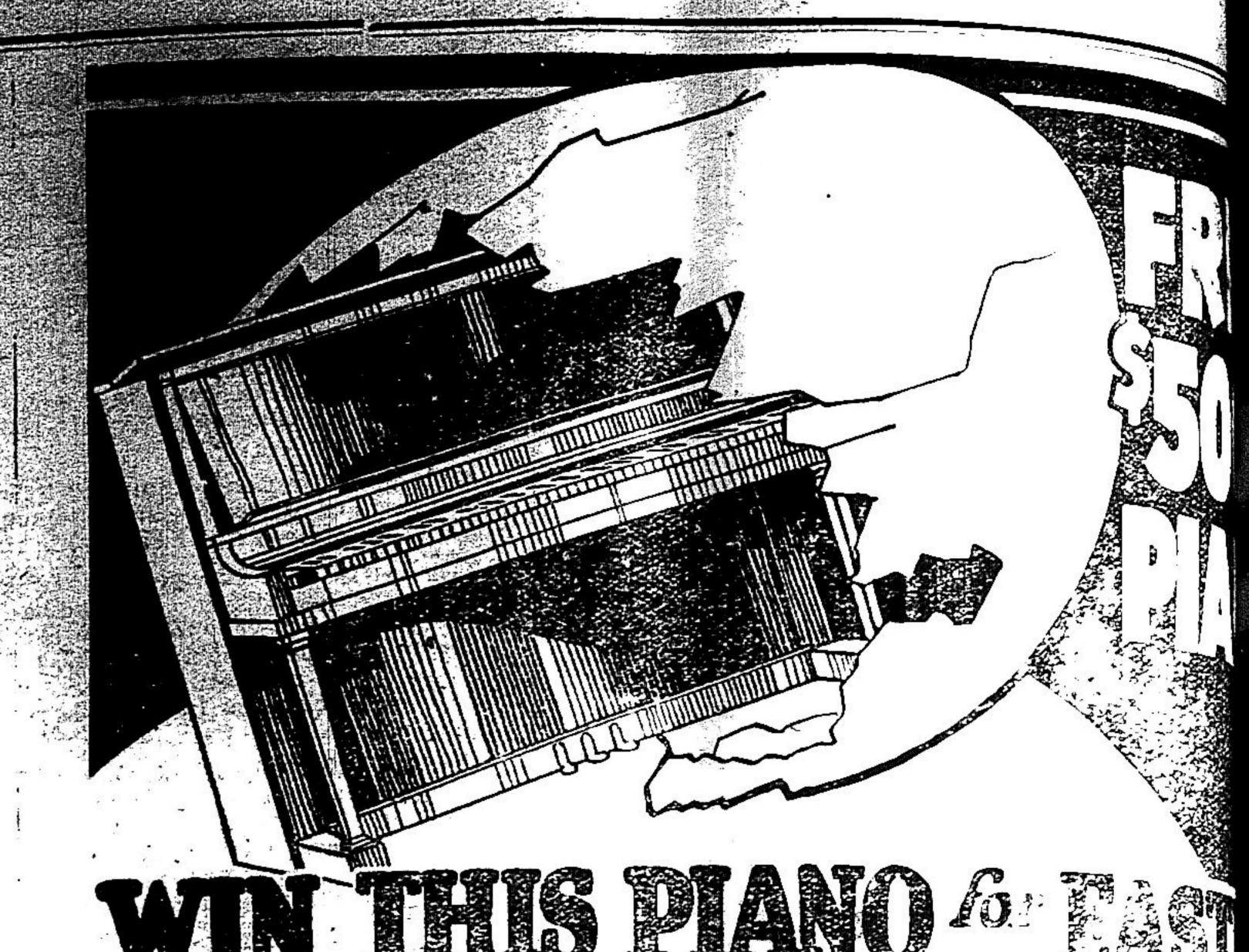
Regular. Champion Toronto Daily Globe \$5.00 \$6.35 and Weekly Star.. 1.00

All kinds of Batteries repaired and

recharged. Special prices on Radio Batteries. All makes of cars Repaired and Over-

BERT BUCK, Manager.

Auction Sale Register, | with mush



As a means of introducing our new Piano and Phonograph Store we take pleasure in giving you this opportunity to win a \$500.00 piano or a \$175.00 Console Model Phonograph

absolutely without cost. THE PUZZLE CAN BE DONE It may seem a trifle difficult at first, but get the family together and you'll soon work it out.

Every answer, whether right or not, receives a recompense of some kind. SEND IN YOUR ANSWER TO-DAY In case of a tie, the first answer received wins

the prize.

Contest Closes Saturday, March 27th, Midnight 1st PRIZE 2nd PRIZE.

BOTH ABSOLUTELY FREE Prizes Are Given Away to the Most Original. Neatest and Best Correct Answers

All answers received contest are final. Should are to be the property of the winner of the first the Consumers Phono- prize already own a graph Co., and the piano, the prize will be judges' findings on the given to the next best. Your answer may be submitted on this sheet or any other material in any way you want.

Get your answer away to-day-it may be the

lucky one that wins one of the big prizes.

CONSUMERS PHONOGRAPH CO. 135 James Street North

HAMILTON Rah! Rah! Collegians Planning to Invade



ngland, Holland, Belgium and France are the popular countries for collegate tours during the summer of 1926, and the St. Lawrence route seems to be the popular short route for many students. The idea of being able to cross the ocean and get back home again at the price usually paid for one way, seems to be the necessary inducement to college people, and bookings are much ahead of last year.

Europe without a background of boulevards and The experienced travel- France's capitol. lers arranging the collegiate tours others to whom the see realize this, and plan a week visit- ficial atmosphere of the ing Oxford, the great intellectual less attractive than the centre, Stoke Poges and other bits, and quaint caps and " of rural England, and London. Lon-the Hollandaise. don, so full of interest historically and with many nooks and crannies keen personal interest filled with the ghosts of famous lit- areas of France and Designation erary personages!

France comes next to England in an extensive motor till popularity with college folks. Some Jenu Wood, Chateau Th there are who become so thrilled with life in Paris that a second trip. across the ocean would be incomplete trapidly becoming an across Successful Brooding. Successful brooding can be summed

2. Careful and regular feeding without sudden changes, ration to in clude milk in some form, and green 3. Get chicks on the ground and in the sun as soon as possible. Cut a sod and put it in the pen if the weather is cold and wet. Use a window in the brooder house that will Dermit the passage of ultra violet light rays (one of the glass clot).

. Proper heat without drafts.

up under five headings:

5. Sanitary surroundings, clean litter. Clean water fountain 6. When weather is cloudy or if rearing chicks very early in the season, add two per cent. Cod Liver Oi'

Wonderful Scales. The Carnegie Institute is using , markable pair of scales in a thor-

No one should attempt to see without at least a with Very few in Canalis most of the coll guite 's

Make them

Champion

DAY MORNING

· First and ti .r.i >4 day, Litany and setting TATHER PORCE

NDERSON, M. D.

GOWLAND, M.A., BE KING, M.B. dence, Corner of Mai G. BREMNER, and Surgeon

ALERMO surgery, or Osteopa ELSEN, D.C. TENDANT . The Chiropracto

Iour Autmobi MEINSURANCE CO London, England.

·Years Expense

ger losses by fire, of and theft balso en public liability and URANC

DEWAR Life Insurance Com

DRESSES OF CLERK Georgetown: 4. U the Peace and r, on opening d without Jy be required for the Justice Accounts.