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many of the most Canada - men the country as the professions, ustry-put their Jarvis, Toronto engine of 450 horsepower. Yet he een convicted of imprisoned and the heaviest fine ida, was the innoact of injustice, ed would be a perince. They comthe Dreyfus case ardly as bad as the victim of a mile on land would now be his-Mr. Jarvis was of errors and unces. But Drey-

smooth road, they would have made the speed. To make 120 miles an what he deemed to be sufficient speed pletely. hour a car must have engines not when he crossed the line. Clutching Lockart's Experience. erful as those required to make sixty keep on a straight course. Such was

Auto Racers Near

sistance and Other Condi-

tions Stand in the Way

of a Much Higher

Velocity

Probably one-half the horsepower at Campbell's disposal was used in overcoming air resistance. At a speed fraction of a second. Hence the fear of 220 miles an hour, which he says of running into the crowd. he attained at one time, the resisthead was over 100 pounds to the over 33 a second, that ordinary tires death, square foot. When Campbell was are practically useless. The slightest The craving for speed is in itself tossed up for a moment above the inequality-a mere pebble, for ex- primordial instinct, the reason for windshield after he struck a bump ample-is enough to make the main the sand his goggles were nearly chine hop, so that it seems almost to Fleetness is many an animal's salva-

sistance elaborate investigations and tire strikes a hammer blow on the when they are seated in their highexperiments in wind tunnels must be road. carried out. What are called para- We know what happens when a Campbell and Lockart slip back a milsitic surfaces—surfaces which offer wire is bent back and forth or when lion years or more partly because extra resistance—must be suppressed. cold steel is hammered. Heat is de- they are striving to satisfy an old but The designer strives for a form with- veloped. Both the wire and the steel persisting instinct to flee from someout projections; for it is easier to become too hot to hold. The wire thing, partly because they must rely drive a smooth, correctly designed eventually breaks. Rubber is a par- on the cave man's instinctive co-orbulk through the air than to rake it ticularly sensitive substance. If it dination of brain, nerve and muscle with many excrescences. The details were not it could not be vulcanized. to guide themselves. of Campbell's Bluebird Special have The tire maker tries to make an innot been published. Hence it is im- tegral mass out of cotton fabric and possible to compare her lines with rubber, but at about 490 degrees Fahthose of Segrave's Mystery S.

High Marks in Doubt.

Neither the Bluebird nor the Mys- of the heat that has been generated. tery S traveled at maximum speed, so that, despite the records, no one are finer than those of the other. Campbell's exposed wheels must have retarded him. On the other hand, the fin at the tail of his machine made it easier to control the Bluebird laterally in the face of the stiff wind that ! carries out his intention of trying to flywheels. When he was traveling at formers who "loop-the-loop" before beat Campbell's record, the lines of top speed they were no longer circu- circus crowds see to it that their Chinese Veterans Still Retain his Mystery S plus her power may lar, but oval in cross-section. No re- heads are rigidly strapped in place.

what the engineer calls "negative despite the best efforts of the manu- hurled out by centrifugal force as aided by the suction of motorcycle the rear end of an incorrectly designed machine upward. Hence there is a

bound vehicle faster than any man strapped in place, who knows what

where over 3 000 000 leaflets will be leading the strapped in place, who knows what

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considered by Englishmen the strapped in place of great hist chine to capsize.

Because the pressure of the air from every angle must be considered the designers of Segrave's and Campbell's machines had to depart from the rules established by airplane builders. It is the practice to test the air resistance of every part of an discover the shape which can be driven through the air with the least amount of energy. Wind-tunnel refish are correctly designed. Nature discovered long ago that the prow must have a rounded, rather blunt speed is to be attained with little ef- varies from 147.6 to 180.4 feet a sec-

This is what is meant by "streamlining." No eddies must be stirred up, if possible, and no wake should be the sands at the rate of 303 feet a left behind. Foaming bow waves and second. Man has attained a speed wakes may gladden the eye of the ma- on the ground greater than that of rine painter, but they are the visible sensation! Campbell's roaring enevidences of inefficiency to the en- gine drove him on faster than his gineer. The truth is that our locomo- brain could order a muscle to move, tives and steamships pay too high a faster than he could wink or shift an price for speed in the form of engine eye. Supose that it took him two power and therefore fuel. Probably seconds to read a speedometer on the the Mauretania and the Twentieth instrument board. In that brief inter-Century Limited could attain their |val he rushed over 606 feet of ground present speeds with half the fuel that |-three city blocks! No wonder that

Airplanes and Automobiles.

If the lessons of the wind tunnel a mile away. would have egg-shaped fronts and fine an animal, relying on what we might fails. As it is, their forms are almost call "instinct" for lack of a better plete in every detail. Here it is working.

scowlike, except for the easy curves. Whatever the wind tunnel may teach Limit of Speed about airplanes it teaches something very different for automobiles.

The pressure downward on the nose Nerves of the Drivers, Air Re- of a high-speed automobile and upward on the tail is terrific. Besides, air is spilled over the sides in ways that tend to cut down speed. In order to equalize the downward pressure in front and the upward or negative pressure behind, the surfaces are To drive an automobile, an earth- curved in forms that must seem bound vehicle, at the unprecedented strange to an air racer. The object of rate of 206.95602 miles an hour, as the curves is to let the air slip over Captain Malcolm Campbell did on the the machine rather than to let it batsands of Daytona Beach last week, in- ter the sides and bottom. Thus is to volves more than engine power. His be explained the squat look of both Bluebird Special had a twelve-cylinder | Segrave's and Cambell's machines.

Florida's Unique Course. broke the record of 203.792 miles an Florida has the only beach in any hour made by Major H. O. D. Segrave civilized country on which Mysteries last year in the Mystery S, an outo- and Bluebirds can be tested at top mobile fitted with two 500 horsepower speed. A runway of at least twenty engines. Had Frank Lockhart not miles is required, and it must be swerved as he was roaring over the straight and as free from inequalities beach at 225 miles an hour and in- as possible. There is no question of jured himself and his machine by taking curves. Moreover, the runway plunging into the ocean, it is probable must be without trees or flanking that the world's record for the fastest ditches. A beach of hard sand alone word. As he guides a vehicle rushing that a kitchen table could be made to fulfills the conditions. In Europe no over the sands at more than 200 miles fly if there were power enough to If Segrave and Campbell had tray- twenty-mile beach free from sand an hour he is scarcely conscious of drive it.

its effect at high speed. merely twice but eight times as pow- the wheel he exerted every effort to miles an hour. Every additional mile his inertia as he was flying along at what must have been 220 miles at times that the slightest swerve as-

renhelt the two disintregate. At the end of an automobile race tires are hour. The Frenchman Bonnet has found to be internally ruined because

a manufacturer who had spent months side loop he probably traveled at the "Well, confound it! That's just I told him how my ankles felt. in conducting experiments to dis- rate of more than 300 miles an hour. what I am." cover how they could be made more And at what risk! Such was the cen resistant to heat and centrifugal force trifugal force generated as he whirled than those with which stock cars are provided. Flywheels explode if a cereveballs would be torn out of their Sedan Chairs tain critical speed is exceeded, and cords are available to judge the con- Yet their speeds never approach that As a high-speed machine rushes dition of Segrave's or Campbell's of Bonnet or Doolittle. Even in rac-

have said: "There is no limit to on the heart and the comparatively the streets, but they are now reduced distributed. The machine circles over that temptation. speed. Perhaps not from the view- soft brain.

These chairs require almost as down, after which a landing is made, tain areas are scheduled, and the sale "What do they know of England the wings are folded bank as the wings are folded by the wings are fo

worthy measurements. He found that the air. Wilbur Wright once said seen better days. the speed at which a nervous excitation, such as pain, is transmitted prick of a pin is felt instantly.

But Campbell's racer flashed over they now consume if they were steam- he was terror-stricken when he thought for a brief moment that he had lost control of his car and was about to plunge into the crowd half

had been followed strictly the Mys- Reasoning is out of the question tery S of Segrave and the Bluebird even when danger seems fairly disof Campbell would resemble airplane tant. There is no time for the logical fuselages more than they do. They processes of thought. Man becomes

An Exceedingly Chilly Thrill



BUFFALO "SNOW-BIRDS" PLAY HOCKEY IN BATHING SUITS

Lockart probably does not know exactly what happened to him. He was seen to swerve first this way and then that. Perhaps a bump in the sand threw him momentarily off the straight course that he was trying to maintain. Such was his inertia at 225 miles an hour that his machine ance must have been over half a ton Such is the centrifugal force of tended to keep on the swerving course to the square foot. Segrave has wheels spinning around at the rate of that had been assumed. He landed stated that the pressure on his fore- about 2,000 revolutions a minute, or in the ocean, providentially escaping

which we see in all other creatures. flutter along if it is watched closely. tion in the struggle for existence. An To cut down this terrific wind re- Thirty times a second each part of the evolutionist probably would hold that powered racers men like Segrave,

So it seems as if we must turn to the air if distances are to be covered at velocities higher than 250 miles an already made 275.48 miles an hour in an airplane. When Lieuttenant Jas. H. Doolittle of the United States Campbell's tires were produced by Army succeeded in performing an out- You look just like an undertaker." He said they made Orion's belt. sockets.

Campbell's tires had to withstand cen- To prevent their necks from being trifugal force as great as that of many snapped by centrifugal force the per-

cane. Air pressed on his machine. limousines. As one walks along one stubs one's That pressure could not be ignored. toe. How long does it take the ner- In a machine designed solely for tra-

eled in a vacuum and over an ideally dunes can be found. Even Dayton's his acts. "Just before I finished the | Campbell's record may be beaten I know a man who is, I think, beach, on which many motorcycle and mile I glanced at my instruments and by a slight margin—a fraction of a Peculiarly athletic. automobile records have been made was making 220 miles an hour. Be- per cent. perhaps-but there is no When winter blasts are far from ten a hundred horsepower. Both sped and broken, is not all that a Segrave fore I could look up I had crossed the likelihood that there will be a sudden along in storms of their own making, or a Campbell can wish. Twenty miles final wire and was headed for the jump from his 207 miles an hour to My feet are first upon the fender Few winds attain velocities of 200 of billiard table would be better, inas- soft sand dunes," Campbell said. Five 230 or 250. Because of the slowness: And I feel most pathetic. miles an hour, and long before they much as every pebble and shell has thousand hearts stood still during that with which the brain telegraphs its do trees are uprooted and roofs are Campbell allowed himself four miles right his car he himself cannot ex- foot and hand there is some reason Runs down the drawbridge 'cross the ripped off like sheets of paper. Air in which to get a rolling start, and plain. He knows only that his feet to believe that the highest speed atthe speed. To make 120 - 12- - then found that he had not picked up left the accelerator and brake com- tainable over the ground lies some. And when I to the window go where between 240 and 250 miles an He beans me with a ball of snow.

Undoubtedly the engineer can de- This morning he vouchsaf'd, "Let's sign and build a car that will go much faster. But what's the use if human Our supper up beside the lake." nerves are unequal to the task of con- I did not know quite what he meant, trolling it? There is good reason to I do not know just why I went. believe that Segrave's Mystery S. which held the record until Camp. The day was cold, the air was raw, bell's Bluebird broke it, can skim over Which ought to be against the law. the sand at 236 miles an hour, but the The lake was on a mountain steep iron-nerved Segrave himself doubts Where beavers are too cold to sleep. if he will ever reach that speed. It is a pity if human endurance has reach. I sat within my cote raccoon, ed the breaking point, for the engin And up above my hat the moon, eer has not said his last word.



"Say, don't walk around all day That make up Mister Orion;

Old-Time Transport

Shanghai-Shanghai foreign settle. Sit fast at home and let 'em go, along it creates a suction behind it— tires, but it is safe to conclude that, ing motor boats pilots have been dealing with its traffic problem. Two As I have got, and don't go out pressure." Any one who has ever facturer, rubber had parted from fab- they whirled around the marking sedan chairs, relics of a picturesque Unless it's hot.

—Hall Pegg. make or sell illicit whisky. stood on the platform of an observa- ric after the race against time was buoys of a course. Hence even in the past, with their 12-foot poles, green tion car has seen stones sucked up over. It is highly improbable that air the "stunt' maniac is restrained by curtained windows and spare collies air the "stunt' maniac is restrained by bearens continue to find the cont from the tracks and dropped. A little Campbell will use his old tires again his nerves and his soft tissues. There bearers, continue to find use as the little campbell will use his old tires again his nerves and his soft tissues. There cyclone is created. Bicycle riders are if he decides to beat his own record. can be no short, sudden turns in any property of two Chinese veterans who campaign has made its bow to the Arglens of the west and northwest of ment. future voyage to Europe in a 300-mile- refuse to bow before the customs of gentine public. The flight is to be Ireland and the islands off the coast. The handicap thus imposed on After having traveled in an earth- an-hour machine. Even if heads are the age. Fifteen years ago there were over some 20,000 kilometers and calls to try their hand at whisky-making. places of great historic interest is before him Campbell is reported to the effect of centrifugal force may be

automobiles of Segrave and Campbell machine any faster than that built much space as a motortruck. Their the wings are folded back and the machine any faster than that built much space as a motortruck. Their the wings are folded back and the machine any faster than that built much space as a motortruck. Their the wings are folded back and the machine any faster than that built much space as a motortruck. may not be the last word in power for Campbell or Lockhart can stay passage exacts a great degree of conmay not be the last word in power for campbell of the Empire if dwellers in outand ground speed, but is the named on the ground speed, but is the named of the Emphre it dwellers in out to their brain and hand capable of controlling become a kind of airplane and soar police. Shanghai's traffic is the most exercise to the peasants manage lying parts can have brought to their machines even faster? Isn't the dif- into the air or whether it will not diverse in the world, ranging from ficulty to be overcome in the future turn turtle. As he rushed along rickshas and wheelbarrows to the psychological rather than mechani- Campbell created a veritable hurri- latest models of motortrucks and

vous system to signal the fact to the veling at the highest possible speed Double jeopardy is when the wearer ceived the support of the British Ambrain? The great German physicistt the pressure on the under surface suddenly realizes that both pairs bevon Helmholtz made the first trust- might well lift the entire weight into longing to the two-pants suit have this new venture to push British

A Doleful Tune

And through my teeth the wind did A doleful tune.

To lamp the starry firmament And he was glad he did not know

And there I sat in pitchy dark Without electric lights to mark

Just what I was so coldly eating; And I said much I'm not repeating.

What then was on my radio.

He had some hard boil'd eggs in I think he gave me nothing else. ate the shells mixed up in eggs

He pointed out three little stars with such a rye look on your face. And what I said was rather tryin'

And rapt a rug about my legs.

We travel'd home in painful ruts

Slow Traffic To try to be a willing guest, I wonder if it's ever best When what you eat you don't digest.

> When goofy guys on ice cavort, Oh, do not try to be a sport.

Boosting Business

the towns, and leaflets are thrown Under the licensing act of 1924 cer- pressed in the lines: names of the firms, all of which are British, their addresses and the articles that they wish to adverise, are pained on the machine, as well as printed on the leaflets. The scheme, which is refreshingly novel, has rebassador, and success should attend

Every Boy and Girl Would Like One



TRIP ON A TINY TOOT-TOOT A young machinist in Vienna has built what is claimed to be the smallest locomotive in the world, com-

Scientists Told Effect on Radio Of Air Stratum

Physicist Says Heat Layer Fairfield Osborn, president of the Tops Frigid Regions Nine Miles Above Toronto

Addresses Montreal Group

Height of "Interference Area" see only a towering beast. Mr. Os-Put at 50 Miles in Day

and the ninth, a layer that has about vision along the river sides of North the same temperature as a warm Africa, and a whole train of its dessummer's day," said Professor J. C. cendants marching across the con-McLennan, director of the physical tinents through the millenniums, conaddressing the Wireless Association derms of to-day. of Ontario in the Physics Building at Photographs of elephant herds

the surface of the earth at night. | magnificent African Hall of the Am-

nan. He said that if all the ozone animal life which had delighted him

than one and a half inches thick. | erts or civilized and uninteresting. Lights, were also spoken of at length, even in the millennia when glaciers and two experiments performed by were crushing out life or when the Professors McLeod and Wilhelm, co- giant dinasaurs were being extinworkers of Professor McLennan, in guished from the face of the earth, showing how various scientific dis- bave whole species been wiped out coveries would be made in reference with the ruthless speer of this transto the lights, to come through sta- forming age, "In Africa alone," as tions being established in northern Mr. Osborn points out in the current parts of Canada and through appara- issue of "Natural History," organ of My friend said much to him it meant tus being installed in Western Cana- his museum, "there survive the offdian universities.

Irish Poteen

Excise Duty on Whiskey Make Their Own, But Heavy Penalties Are Hav- John Bull has a reputation for proing Effect; Many Stills gressing slowly and surely. It is Found Set Up in Bogs

By Shan O'Cuiv

Dublin-Forty persons were imprisoned and ninety fined for poteen amenities and advantages." making in the Free State in 1927. The This, of course, does not mean that number of detections and seizures of an act of Parliament is needed to illicit "stills" and the number of per- awaken Britons to the dollars and And those we passed said: "Pipe the sons prosecuted were greater than cents value of advertising, in 1926. This does not denote an ex- The necessity for Parliamentary tension of the manufacture and sale sotion proceeds from the fact that a of illicit spirits, but more intense municipality's present powers of pubectivity on the part of the police and licity are limited to an infinitesimal a better knowledge of the haunts and tax levy whch is altogether inademethods and devces of the poteen quate for the busness of attracting makers. The poteen makers are tourists from abroad. quick-witted and ingenious, but they | For instance, at present a borough are being beaten in the battle of wits may advertise itself as a health rement has many curious anomalies in And then you won't cadge such a co' by the police, who are making it dan- sort but may apply to this purpose gerous and unprofitable either to only such moneys as it gets by rent-

> The excise duty on whisky is a for beach vendors and by charging great temptation to the small farm- for admissions to parks. Few towns

of poteen for the celebration, and found. they are on the watch when any such | The human touch counts for much event is expected in the scheduled in all the affairs of life and in none

they also find out replacement of equipment and make seizures. The fact that the number of seizures is much greater than the number of detections is due to he ingenuity of the poteen makers, who select bogs or other common property for their operations so that ownership cannot be established. They are as ingenious us bootleggers, but their occupation is becoming more and more difficult with Church and State against them, ery of poteen in County Louth, in Leinster, within living memory was made recently. The seizure took place in the Ravensdale Park district, fro these. It is unnecessary that it which is just off the main road to should do any more. Now that the Dublin and Belfast. A man has been buildings are provided the students arrested and remanded in connection should be self-supporting in their with the seizure.

Pie-eyed.

extreme infatuation."

The Vanishing Elephant

It must be a fascinating experience to think in millions of years. Henry American Museum of National History, looks at the vanishing wild life of Africa and remarks that "a million years ago the entire world, including every continent, was filled with these glorious animals which it had taken millions of years to create." Most of us, when we see an elephant, born, apparently, looks upon an elephant and sees a panorama of ten mil-Montreal-"If we went straight up- lion years. A little animal, barely a ward from Toronto for seven or eight yard high, without as yet the tusks miles, we would pass through an ex- or the proboscis which spells elephcessively cold layer of atmosphere, ant to most of us, browses in his laboratory, University of Toronto, in nect that little animal with he pachy-

seem to give ressurance that there This stratum of air, the speaker will always be plenty of elephants to said, is but one of a series of layers delight the children at the zoos. But that enshroud the earth, starting with it does not require even a palaeontoair of the lower levels, with a cold- logical mind to doubt it. Africa is er sphere next and layer on layer changing in our generation. Despite piled one on top of another, to a the great Parc National Albert which height of about 500 miles. These sev- the Beglian government has estaberal layers have an effect on radio lished in equatorial Africa, it will transmission. Professor McLennan not be many decades before the fat said, but the height of the "interfer- gorilla is as extinct as the little ence area" varies from an area about quagga that once trotted in vast forty-five or fifty miles up in the day- herds across South Africa. Carl time, to about 90 to 130 miles above Akeley, collecting specimens for the Ozone also came in for consider- erican Hall of the American Museum, able comment from Professor McLen- noted in 1926 that the abundance of contained in the atmosphere were two decades earlier was already a compressed to atmospheric pressure thing of the past. Areas once rich at sea level, the layer would be less in game were becoming lifeless des-The Aurora Borealis, or Northern Never since the first spark of life, not spring of 30,000,000 years of mammalian evolution," And in Africa they are disappearing. A few more decades, and ,unless foresight pre-Gets Rude Jolt ents, the motion pictures and the museums will have all that is left.

Tempts Small Farmers to Advertising Britain

reported that the Association of Municipal Corporations in sponsoring a bill to confer powers on local authorities for promoting "the publicity throughout the world of Britain's

chine is towed into some suitable manufacture of poteen has to take Yet it will be greatly to the advaneveryone a chance of seeing it. The to get supplies of raw material and notice the special charms and amenito fit up new distilleries when their ties of the Old Country that they may equipment is confiscated; but police be led to visit and explore its countryvigilance is making their task ever side, obtain first-hand contact with more difficult. Experience has shown its traditions and exchange ideas with the police that christenings and wed- the people of the Shires, where, after dings are often preceded by a "run" all, the heart of England is to be

more than the promotion of a proper By watching the traveling tinkers Empire spirit.- Montreal Star.

Higher Education

Victoria Colonist t(Cons.); (By the end of the next financial year the Unicost the people of the province \$11. education by the State is desirable in many respects, but it is accompanied by a wastage of funds that is deplorable. British Columbia will Curiously enough, the first discov- have done excellently in providing up-to-date buildings and all modern equipment for University purposes and in liquidating the capital charges studies, and, for the students of the poorer families, there should be scholarships available, as there un-Judge-"What is the charge, offi- doubtedly would be through private donations once the taxpayers are re-Officer-"Driving while in a state of lieved of an annual burd-a of upwards of half a millon dollars.

Sammen . will