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About the Shape of Cars of the Future

Refreshment Served

Expert Forecasts Some No- the effort worth while. Very seldom, vel Features Likely to be in Cars of Future.

(Hy L. H. Pomerroy, of the Daimler Co.) its components. Those of us who are intimately conor less the probable course of events. a new form of car. What we do not know is when they will materalize.

In this spirit I submit my guess at panel and built-in luggage compartthe future, based on what is happening ment definite sales resistance has been now in engineering circles and places experienced from 90 per cent. of the where they argue.

sales dictum that we must give the being slow-witted and out-of-date. public what they want. This sounds Therefore good, as always, has to be all right until it is realized that the done by stealth. public have never wanted anything beyond the elementals until they have once had it, and not always then.

We therefore have to think of future developments from the viewpoint of what we think the public are likely want and to keep on wanting.

Streamlining and Other Features

With all its faults the modern car is a remarkably successful machine, but a census of opinions from users would probably be pretty unanimous in welcoming increases in performance, economy, comfort, silence and safety. I say nothing of reduced cost, except that a car differs from no other object of human consumption in that by making it worse it can be made cheaper, and that by making it more expensive it can be made better.

These five items ,performance, economy, comfort, silence and safety, are closely inter-related, and to a large extent mutually inconsistent. They exist to a high degress in modern cars but not in any one car.

The problem is whether a sharp break away from existing orthodox construction will enable a marked advance to be made in the combined and final result. Maximum power with minimum weight are the factors in economy; maximum passenger accommodation with reasonable over-all dimensions, the elimination of mechanical tire and wind noises, and, last but not least. ease of handling, perfect brakes and lady" in the rear seat shall not know steering, and sufficient robustness to about it, is no mean problem. emerge from a collision with something left, all come into the picture.

In an article of this length it is not prime mover—the engine itself. possible even to skim the surface of What is wanted is an increase of the contentions points which arise, but power in the middle speed range. In one item at least deserves mention. It this connection the supercharger will is that of the streamlined body, not as come into its own. In the past supernow popularly regarded, but given charging has been regarded as a means greatly superior aerodynamic qualities of increasing maximum horsepower. by being mounted on a chassis turned This has its limitations, for the maxiend to end, thus bringing the engine mum horsepower is limited by bearing to the rear.

This idea, simple in itself, implies haust valves and pistons. enough work to keep engineers busy the engine on it, with a host of asso- from this viewpoint. short universally jointed axle shafts. | cent.

The difficulties arising with univerthese difficulties somewhat formidable, all the difference between satisfaction heard no noise whatever.

It is highly possible, in fact almost and annoyance. certain, that rear-engined cars will not | Incidentally, our own Institute of saw the woman and shouted at her, but be suitable for the average user until Automobile Engineers' Research De- she did not hear. He also shouted for roads are much smoother and more partment is doing work that compares the emergency brake, but it was too uniform than now.

engine construction. Further, it will not too proud to admit their troubles

terior to reduce parasitic resistance, just as it has been necessary to do so in the case of aeroplanes.

At the same time the advantages to be gained are so enormous as to make indeed, in any accepted construction cent, in performance and economy be effected by a studied redisposition of

Even if, and when, it is an accomcerned with the problems and future plished fact, we shall experience the development of motor-cars know more reluctance of the public to purchase

From the early days of the "torpedo" body to the modern concave rear public. The remaining 10 per cent. All engineers are familiar with the have jibed at motor manufacturers for

> Not the least modern effort of car designers to improve comfort and effectiveness has been that of independderstood that the chief factor in ensur- from cast iron and sheet steel.

with conventional suspension soft front in all but the cheapest cars. springs result in very defective steer- This view is, however, only true if pendents have of necessity to provide are available to motor manufacturers. ment in suspension comfort. They also far quite unattainable in any other way. tackle the not unimportant matter of 'rcad fight" on the steering wheel.

Elimination of Road Shock On the other hand, the many sysems—"wishbone," transverse, Lancia, Dubonnet, Girling, and so on-indicate lack of unanimity which justifies a non-committal attitude as to the final solution.

Independent suspension may be regarded as of the rather than the future, but it still has a long way to go. While it is doing it there are the alternatives of rubber and pneumatic suspension.

Eliminating the road shocks which occur some five or six times a second from masses weighing one or two hundred weights, and ensuring that "my

From the body and chassis we may proceed to what is going on in the

pressures and by heat flow through ex- have been clear.

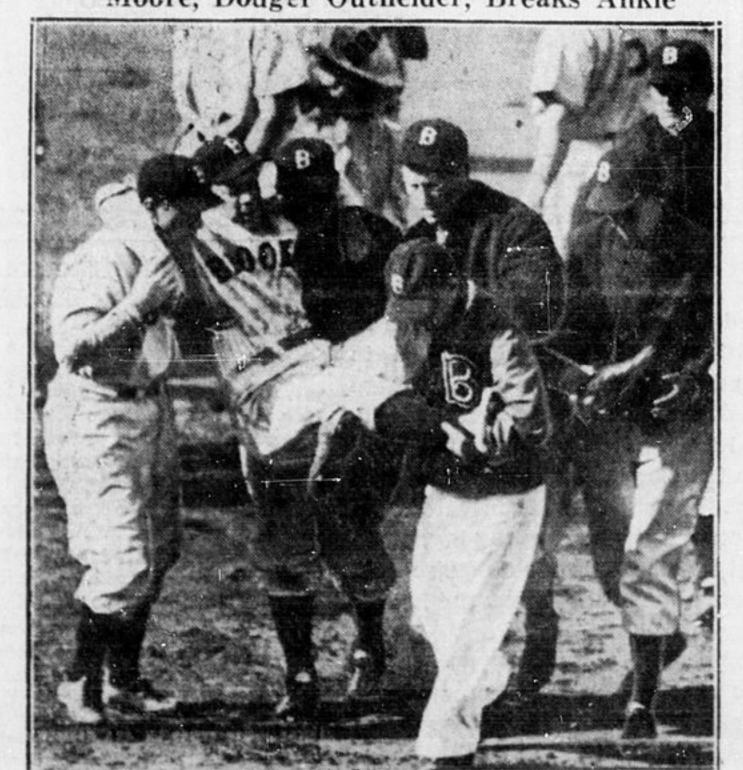
On the other hand, if an engine will for a long time to come, since many develop safely, say, 30 h.p. per litre weight of the rear axle by mounting supercharger developments are oriented and a half.

ciated difficulties in operating an en- Thus, by the application of a device township hall and after it was viewed gine in a state of rapid vertical alter- weighing, say, 10 per cent. of the en- by Dr. M. G. Ranney, her son-in-law, nating movements, or of carrying the gine weight and about two per cent. of and police, permission was given to reengine on the chassis and transmit- the car weight, it is possible to in- move it to McGuinty and Heavener's ting its power to the rear wheels by crease acceleration by some 50 per undertaking parlours at North Bay.

Troubles of Cylinder Wear

favourably with that going on in any late. Mrs. Hurtubise was apparently There seems no way, however, of other country. It is directed by a com- dragged beneath the wheels, mangled taking advantage of the possibilities mittee of the representatives of leading terribly and then carried a little disof streamlining other than by the rear- manufacturers in this country who are tance-

Moore, Dodger Outfielder, Breaks Ankle



Randy Moore, right-fielder for Brooklyn Dodgers, is carried off th diamond at Ebbett's Field with a fractured ankle, received when he tried to steal second with a slide. Moore will be lost to the Brooklyn outfield for at least six weeks.

Possibly of first importance has been the research committee's study of the causes of cylinder wear, which in the main has been shown to be due to corrosion due to rusting of the cylinder during cold starting and cold idling. It is ironic that cars of six or seven years ago should not have manifested excessive cylinder wear because they had engines which needed to be raced after starting to prevent them from stopping, thus producing the necessary increase of cylinder wall temperature to inhibit corrosion.

Against this, as soon as engines were designed to start easily and to idle when cold, excessive cylinder wear took place, and the cries of the diehards swelled to a mighty roar.

Next in order is that of oil consumption, another matter which is now getting under control, largely due to thermostatic methods of inhibiting cylinder can advantages in the order of 30 per corrosion. The factors involved are, however, extremely complex and call for the most meticulous accuracy in production methods.

In no respect, perhaps, do engines differ more than in the application of the skill of the designer and construction in relation to the problem of oil consumption.

In these and many other matters constructive research is proceeding in the investigation of problems the solution of any or all of which may and will profoundly affect future design.

Greater Use of Light Alloys No review of this nature would be complete without reference to future possibilities of light alloys of the aluminum and magnesium types.

The concentration which has taken place these last 20 years on making cars as cheaply as possible has reent front springs. It is not usually un- sulted in their being made principally ing passenger comfort is that the soft- there is no doubt that, for the attainness of the front springs shall be equal ment of a given result in terms of performance and safety, the extra cost The first difficulty that arises is that of light alloy construction is negligible

ing, due to lack of control of the geo- the sources of supply of the semimetry of the front axle. The inde- finished material in its various forms this, and can thus offer soft front In respect of economy and comfort springs with the attendant improve- the use of light alloys gives results so

Callander Woman Mangled by Wheels of Freight Train

Despatches this week from Callander, near North Bay, note that a norrible tragedy took the life of one of Callander's prominent residents Saturday morning when Mrs. Henry Hurtubise, aged 62, was dismembered beneath the engine wheels of a C.N.R. way-freight at the main railway crossing there.

An inquest into Mrs. Henry Hurtubise's death will be held Friday evening at 7 o'clock in Callander. Dr. A. R. Dafoe, coroner, and Crown Attorney

H. Stone, Parry Sound, will officiat? Funeral of Mrs. Hurtubise was held Monday morning from the residence to the church, thence to the Roman Catholie cemetery for interment. Rev. Father E. E. Bunyan officiated.

Extremely hard of hearing, Mrs. Hurtubise, on the way to the store, walked directly in the path of the slow-moving train which was preparing to make a stop. The fireman shouted a warning but apparently she did not hear his words. One more step and she would

A horrible sight met the eyes of those who hurried to the scene. The woman's head was on one side of the tracks and related problems have to be solved, at 4,000 r.p.m., it will develop this safely her body on the other side. Both feet Rear-engined cars present the dilem- in so far as heat flow and bearings are and both arms were also severed. She ma of either increasing the unsprung concerned at 2,000 r.p.m. Modern was dragged about the length of a rail

The mangled body was carried to the

Witnesses stated the train was not travelling more than eight miles an sal joints working through large angles | The future car will also make the hour at the most. Some said it was are well known. Yet passenger com- most of the research work that is now barely moving and were under the imfort demands large axle movements to going on all over the world in respect pression that Mrs. Hurtubise thought it use low rated springs, which make of the important details which make was at a standstill. She apparently

Fireman Arthur Harris, Allandale,

Her defective hearing is believed to be necessary to resign the whole ex- and to seek means for remedying them. have caused the accident because she made no noticeable attempt to escape being hit. She was apparently entirely innocent of the fact that the train was moving.

Provincial Constable E. Sheperd, North Bay, and Constable Payle, Callander, quesioned members of the train crew, all from Allandale, and conducted a general investigation at the scene of the accident which occurred about 8.30 a.m. Members of the train crew were Engineer A. Conlon, Conductor Reg. Bidwell and Fireman Arthur Harris.

Highly respected by her townsfolk, Mrs. Hurtuitise's tragic death came as a dreadful shock to Callander citizens Saturday. It cast a gloom over the entire village. Her husband gave the infomation that he had often cautioned her to stop and look up and down the tracks at the crossing. He said she was extremely hard of hearing.

Besides her husband, eight children survive. They are: Mrs. R. Dupuis, Vermont; Mrs. D. Sauvie, Montreal; Mrs. L. Rochefort, Astorville; Mrs. M. G. Ranney, Callander; Mrs. N. Moreau, Orillia; George, Detroit; Rusesll, Callander, and Archie, Montreal.

Mrs. Hurtubise had been a resident of Callander for the past 15 years.

Sudbury Star:-The British Museum has acquired the earliest known book on Ethiopia, dated 1521 and written in Portuguese. It probably makes better reading than the latest known chapter on Ethiopia, dated 1936 and written in

First T. & N. O. News Agent Passes at Bay

Was Once on Train Held up by Jessie James. In North Since Building of T. & N. O.

Albert Adams, news agent for many years on the T. & N. O., and widely known as a consequence of his business, died at North Bay this week. He was subject to heart attacks and was found dead on Monday morning in his bed at the Continental Hotel, North Bay. Dr. Ranney, who was called, found that an inquest was unnecessary, Mr. Adams apparently passing away from one of his heart seizures. He had had one of in that city. these attacks on Tuesday morning but had apparently recovered and was able Carrier Pigeon Not Much to be up and around on Sunday evening. He was 72 years of age. For the past three years or so, Mr. Adams had been living retired. He and his wife ronto. She and a brother living in slipped away during the reception in Iowa are the only near relatives sur- his honour at the mayor's office in city viving.

The late Albert Adams was a native of Iowa and had been a news agent in his native state and through the Middle Western States. One of the stories told of his early experiences as a news agent was that a train on which he was A pure white male peacock, of which working was held up by the notorious there are only two in Canada, drew train bandit, Jesse James, and one of more than 500 persons to the home of his gangs. The conductor on the train room A. Schmalz, Preston bird fancier, at the was shot dead by the bandit but the week-end. The bird, evidently enjoying news agent was not molested. It is the large gallery of spectators, exhibited said that the news agent offered Jesse its beautiful plumage, which has a James an apple from his stock and the spread of nine feet, one feather also apple was accepted and the young news measuring five feet. The other white agent left free.

& N. O. Albert Adams followed the graves in a Buffalo, New York, cemework of news agent on the lne. He was tery. "Well. I guess I'll dig the next the first news agent to ply his on a T. one for myself," he jokingly told a & N. O. train and continued at the companion on starting a grave. He did work for some thirty odd years, retiring not finish it. He slumped down in the and so do fallen arches, lumbago, bad Judge (to second tramp)-"And some three years ago.

Dusty-"I've got the room above him" of her husband as soon as it was known a heart attack.

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and it is expected that on her return to North Bay the funeral will be held

SECURITY

PHONE 104

had been residents at the Continental pigeons to reach Philadelphia from hotel for about a year and a half. Last Washington as part of the Emergency

week Mrs. Adams left for a visit in To- Peace Campaign liberation there, Taken there for the official delivery

of the messages he carried from Mrs. Franklin D. Roosevelt to Mayor S. Davis Wilson, Paul escaped from the 1ubber band around his wings and perched over one of the high doors. For nearly half an hour he eluded the mayor and others who pursued him about the large

Finally a window was opened and, obeying his instincts, he set out again for his home in Germantown.

Huntingdon Gleaner:- For many Almost from the completion of the T. | years John Vogelsang has been digging

A Hall-School Song

The following little poem was sent to The Advance by a friend:-

Impressed by Ceremonies Said Jimmie to Roy-"Now Roy, my boy, Paul Revere, the first of 400 homing Sometimes you may think me a fool! But I can't see the fun When nothing is done About using the old Central School,"

> "You remember, last fall, They talked of town hall? Why, they actually voted the thing! But listen, my mate, While I talk real estate To the music of 'how the birds sing!' "

'What d'you say to a saw-off! No, no, not a gnaw-off, But a perfectly fair exchange! The school board go hang!

And the council-gosh dang, I'll keep them well out of the range!" So now we agree Since I see that you see

Economy breathes through my theme! Let's up and be doing With vigor pursuing The big DUN-BAR-TLEMAN scheme!"

Acton Free Press:-Life begins at 40, half-completed grave, and before medi- eyesight, falling hair, and the tendency Mrs. Adams was notified of the death cal help could reach him, was dead of to tell a story to the same person three or four times.



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