

WE DRIVERS

A Series of Brief Discussions on Driving, Dedicated to the Safety, Comfort and Pleasure of the Motoring Public, Prepared by General Motors



No. 4—OUR BRAKES

We've all noticed that whenever a train makes a long enough stop in a station, there's somebody on the job, dodging in and out under the cars making sure that everything is in good shape for the train to continue its trip. One of the things checked at every inspection point is the brakes. For nobody knows better than railroads how important it is to be able to stop when you have to stop.



Now, if we think of it in a certain light, we people who own automobiles are all running little transportation systems of our own... just like the railroads and airlines and bus companies. Home is the main terminal and there are lots of stops along the line... flag stops, you might say, and regular scheduled stops—like the office, the grocery store, the school, the theatre, and our friends' houses.

Just like the railroads, one of the main things we need to look out for is our brakes. Of course, everybody knows this and yet somehow or other we're apt to be a little careless about it. Not that brakes don't give us plenty of notice when they're going to need adjustment. As time goes on we find that we can push the pedal lower and lower, till after a while we can shove it down almost to the floorboards before the brakes take hold. Even then we sometimes wait quite a while before we have them adjusted. It just seems to be human nature to put off things like that. They tell us the result is that one-third of all cars on streets and highways at any given time have something wrong with their brakes.

The trouble is that when we let our brakes go like that, all of a sudden we may have to make an emergency stop, and we may find it rather embarrassing. Engineers say that if we realized what goes on in brakes we would see why we ought to keep them checked up. As they explain, it's a story of momentum and friction, the same old forces we've talked about before.

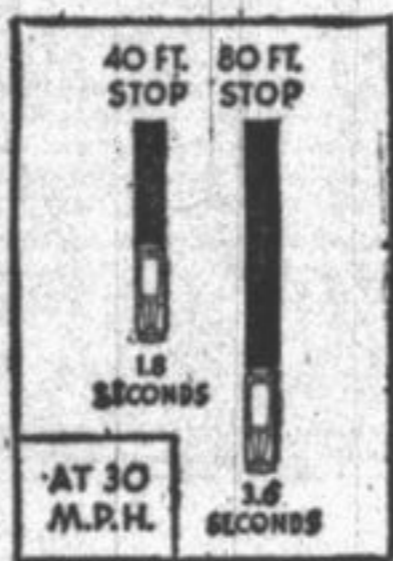
They say that when we get going we build up a certain energy in the form of momentum. Now when we want to stop, we can't just destroy that energy, because, scientists tell us, Nature never lets any of its energy be destroyed. We can only convert it into some other form of energy. What brakes really do is to convert speed-energy into heat-energy. When we push down on the brake pedal we press the brake lining against the brake drums and this creates friction that changes the energy to heat. When we have changed all the speed energy to heat, then we come to a stop.

Now modern brakes are very powerful. In fact, a 100-horsepower car will have about 500-horsepower brakes. They can stop us pretty quickly even from high speeds. But when they do, they simply change those speeds into a great deal of heat, in a very short time. The fact is we sometimes build up temperatures in our brakes as high as 1400 degrees!

It's easy to see that heat like that can cause a lot of trouble. Some of us may think it's fun to rush up to sudden stops, but we might as well realize that we have to pay for that kind of fun in excessive brake wear. It simply doesn't pay to build up brake heat a lot faster than it can be thrown off. And we certainly get hardly anything back in time saved. For instance, if we're going 30 miles an hour, our brakes can stop us in 40 feet if they are all right; but it takes them less than two seconds longer to stop us in twice that distance. How much better it is, under any normal circumstances, to begin to apply the brakes a few seconds earlier and, with gradually increasing pressure, bring our car to an easy stop. As a matter of fact, smooth, gradual stopping wherever the circumstances permit, is generally taken as a sign of a good driver.

Now if we want to keep our brakes safe and sound, it's important to remember what these fast stops do to them. But it's just as important to remember that all stops generate some heat in our brakes. That's what gradually wears down the linings, and sooner or later makes a brake-adjustment necessary. And that's why we must watch them and see that adjustments are made when they are needed.

So maybe it would be a good idea to keep on thinking of our cars as private transportation systems. If we keep them in good running condition, they will serve us with safety and satisfaction.



Y. W. C. A. Notes

Note of Thanks
Members of the Board of the Y.W.C.A. wish to express their thanks to all givers and workers in the Community Chest campaign. This resolution of gratitude was started by Mrs. W. A. Alexander and passed at the regular monthly board meeting on December 10, following Mrs. Lyle Gourley's reading of the letter from the Chest president, A. W. Sihler, notifying the "Y" the successful close of the campaign.

The spirit of cooperation between all groups is one of the finest things Highland Park has experienced, was spoken of by Mrs. Theo Osborn, president of the board. That Highland Park givers may realize what a large number of girls and women are using the Y.W.C.A. and therefore benefitting from the chest gift which helps maintain such overheads as fuel and upkeep. Mrs. Lydia Hutton distributed a chart showing the daily use of the building. While fees are charged for any activities, the "Y" holds open house for gatherings of all kinds. "There are 253 junior club members and 564 adults enjoying the educational and recreational activities of the "Y" this winter," said Mrs. Hutton, general secretary.

Christmas Message
Rev. H. F. Siemsen, of the Bethany Evangelical church will give a Christmas message at 5 o'clock for the first of the Community Twilight Teas, to be held at the Y.W.C.A., 374 Laurel avenue this Sunday, December 15.

Christmas Carols will be sung by members of the Civic Orchestra, directed by Mrs. Mannings. Preceding Rev. Siemsen's talk the entire orchestra will give an informal concert at 4:30. This is the first opportunity for people in the community to hear the Civic Orchestra.

The board of the Y.W.C.A. will be hostess for this Christmas Candlelight Tea. A cordial invitation

is extended to all friends of the Y. W. C. A. to attend this hour of social, musical and religious interest. Mrs. H. C. Hawes, chairman of the religious education committee, is in charge of the Sunday program.

Tap Dancing Tea
"Won't you have some tea and taps?" daughters are politely asking their mothers this week as they issue invitations to the Tap Dancing Tea at the Y.W.C.A. on Wednesday, December 18.

A breath-taking exhibition — in that the youngsters demonstrating their tap rhythms will not want to make a mistake or their mothers watching the performance will not want to see their daughters leave the floor—is scheduled for 4 o'clock.

Miss Agnes Daly, the instructor of 132 Highland Park girls from pre-school through high school age in her seven classes at the "Y" is planning this novel "elimination program." Every member of each class will go through the first dance. Those who make mistakes will be tagged each time it is repeated so that the final performance will be given by the most nearly perfect.

A special invitation is issued all those interested in seeing the work who may want to register next semester as Miss Daly's next term will open January 15, registrations will be accepted immediately after the holidays.

Social Service Department makes the following announcement

All kinds of scraps of material are needed to make clothes for the women's dolls. Please take them to headquarters right away or give them to a member of the committee. At the next meeting we would like to have toys, canned foods and clothing which members have been collecting for the Crippled Children's clinic party in Waukegan. Have at least 35 children to provide for there, also older boys at Dorcas home. The extras will be used in Highland Park or at the Lake Bluff Orphanage. Mrs. Clara B. Ander-

son will get a committee to wrap the gifts.

Headquarters will act as clearing house for any one wishing to give Christmas baskets so there will not be any duplication. Those who do not have a family in mind, may bring any contributions to the club. The committee will pack and deliver the baskets. There will be a least 100 families not provided for by the other Highland Park agencies, so bring whatever you can, or ask Mrs. George Fawell or Mrs. Melville S. Flinn for a family.

Legion to Sponsor Christmas Party

(Continued from page 1)
fruit. A special committee consisting of Mrs. A. G. Mason Jr., Mrs. Frances Parker and Mrs. G. W. Farwell, is in charge.

Chief Hoskins of the Fire department under whose direction the Highland Park firemen recondition toys each year, is co-operating and hopes that everyone will help by making contributions of old toys or new toys and especially dolls and trains to reach the fire department not later than Dec. 17. Donations of candy and other things will be welcomed as well.

To those wishing to donate a dollar, five dollars or more it is requested that contributions be forwarded to Mr. Harry Earhart, chairman, located at Murray & Terry's office, 377 Central avenue. Mr. Earhart and Mr. Jack Davis, who is Child Welfare officer of the American Legion.

The Ladies' auxiliary of the Legion under the direction of Mrs. P. E. Cole and Mrs. E. M. Verner, will be in charge of sorting and wrapping the toys and Mrs. R. Flynn, secretary of the Social Service committee, will be in charge of devising ways and means of distribution.

Commander Edwin Gilroy states that last year there were in our community over four hundred children whose Christmas was made

happier through the efforts of the Legion and civic groups who helped. There are a great many this year for whom there will be no Santa Claus unless some one brings him. Commander Gilroy asks therefore that everyone do something to help the Legion; make sure that every child in Highland Park is happy Christmas morning.

Evanston's Early American Inn for LUNCHEON AND DINNER

All Homestead visitors are delighted with its Early American charm. And they praise its food, which includes many delicious New England and Southern dishes. You'll like it here, too.

Rooms for transients—suites for permanent guests. Suggest to your out-of-town friends that when they come to Chicago they enjoy the quiet comforts of Evanston's Early American Inn.

The HOMESTEAD IN EVANSTON
1425 HINMAN AVENUE EVANSTON, ILL.
Telephone—GREENLEAF 3300

Rhea Zur Welle Is Member of Hockey Team at Rockford

At the annual Hockey and Crew banquet held last Monday at Rockford college, Miss Rhea Zur Welle was named a member of the Sophomore class hockey team. She was further honored by being chosen a member of the Army team for the Army-Navy game held each Thanksgiving at Rockford. The two teams are selected at the end

of the hockey season from the best players in each of the four classes at the college and the game is the final one of the year.

North Shore Cab Co. Announces Low Rate

The North Shore Cab company, located at 11 N. St. Johns avenue, and owned by Rocco Cocarelli, announces a new low rate of 15c per mile. Prompt cab service may be obtained by calling H.P. 300.



Its Time to Think About CHRISTMAS and the Friends on Your Gift List YOUR PHOTOGRAPH is the most personal, the most appreciated of all gifts Avoid the worries of late shopping for distinctive gifts by sitting now for Your Portrait

Hecksweiler Studio Photographers

7 South St. Johns Avenue Phone Highland Park 435

Thousands of families will be celebrating THIS CHRISTMAS WITH ELECTROLUX THE SILENT REFRIGERATOR



It's the perfect gift for Mother (and, incidentally, one that will bring a lot of pleasure to the whole family)

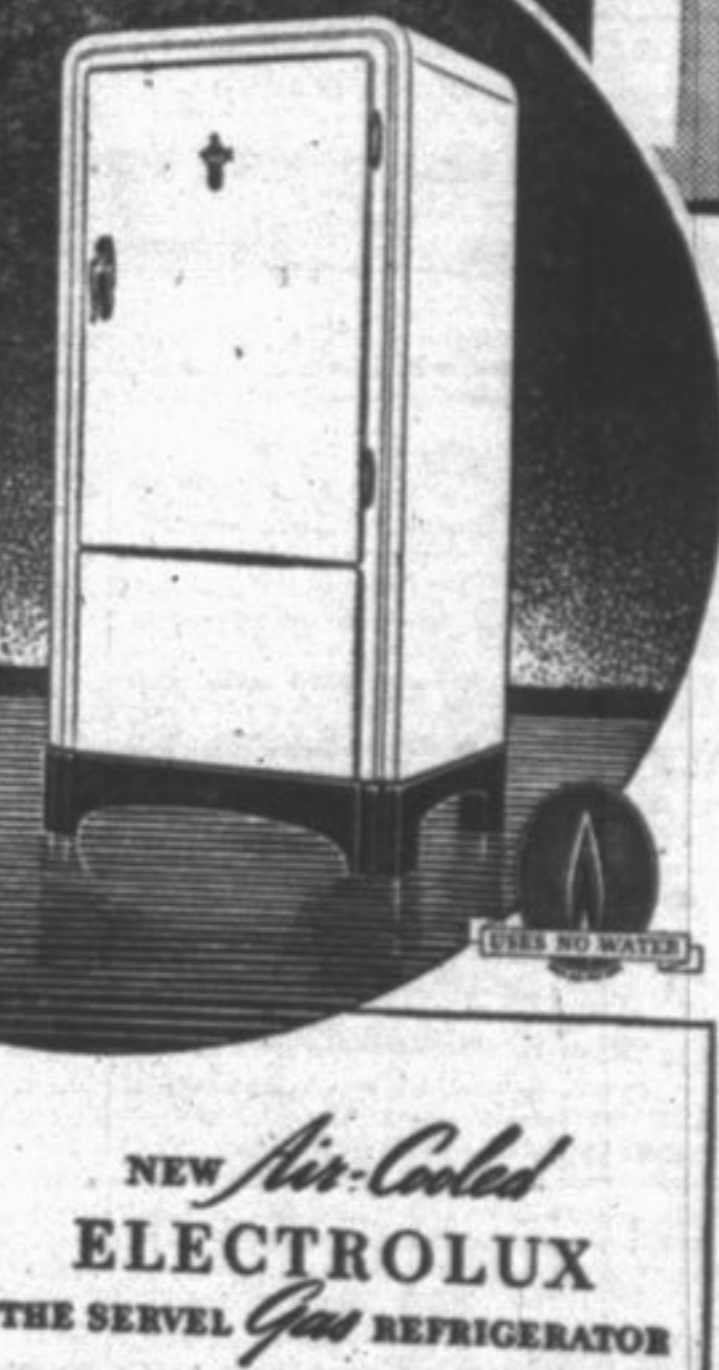
AN ELECTROLUX for Christmas will mean more real enjoyment, more lasting satisfaction, than anything else you could probably choose! Mother will love its sparkling beauty... its modern worthwhile conveniences. And the whole family will gain with its generous supply of ice cubes always on hand... its perfect year-round food protection.

The fun will start Christmas Day! Electrolux makes every meal easier to prepare, but it's especially helpful in making merry holiday dinners merrier. Chilling the cranberry sauce... insuring full flavor and freshness of the turkey and green vegetables... keeping bottled refreshments at just the right temperature... open-

ing a whole new world of tempting salads and delicious frozen desserts.

And Electrolux is a gift that will see service every day of the year... and for years, more efficient operation, it offers important practical advantages no other refrigerator can match. For a tiny gas flame takes the place of all moving parts, thus insuring continued low operating cost, permanent silence, and the elimination of depreciation due to moving, wearing parts.

Today—see the beautiful Electrolux models on display at our showroom. Order now, so you may be sure your Electrolux is in and installed for use this Christmas!



NEW Air-Cooled ELECTROLUX THE SERVEL Gas REFRIGERATOR

Here are Easy Terms!

You can own an Electrolux GAS Refrigerator for as little as

15c a day No DOWN PAYMENT

NORTH SHORE GAS COMPANY or these dealers

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