

**New Giant Atom Smasher Undergoes Initial Tests**

Satisfactory initial tests of the University of Chicago's \$2,500,000 synchrocyclotron, giant atom smasher, have been made after three and one-half years spent on design and construction, Samuel K. Allison, director of the University's Institute for Nuclear Studies, announced.

Deuterons, the nuclei of heavy hydrogen atoms, have been accelerated to an energy of 250 million electron volts, the highest known energy ever achieved artificially with these atomic particles. Herbert L. Anderson, professor of physics in the institute, and John Marshall, assistant professor, who directed design and construction of the big accelerator, conducted the tests.

Next step in getting the Chicago instrument into final working order will be to produce a focused beam of protons, the nuclei of ordinary hydrogen. In the test, the deuterons were not brought outside the magnetic field.

The energy attained with deuterons indicates the synchrocyclotron will accelerate protons to energies of the order of 450 million electron-volts, making it the most powerful accelerator of positive ions in the western world.

**Female of the Species Tends to Outlive Male**

The American female contradicts the description "weaker sex" by showing markedly greater tenacity for survival than the male of the species at each year of life.

This is evidenced by the higher death rates that prevail for males as compared with females for every age group.

The advantage enjoyed by females is greatest in the late teens and early 20's, when the mortality among men is almost 90 per cent higher than that of women, and again in the early 50's when the excess in male mortality is about 75 to 80 per cent. The least differences in mortality are in early childhood and at the later ages of life.

"The situation today is in marked contrast with that a half century ago, when the disparity in the death rate between the sexes was considerably less," statisticians report. "Then the greatest excess of male over female mortality occurred in the first year of life, but amounted to only 21 per cent. At many ages the death rates for the sexes were about the same; and at ages 15 and 16 the rate for males fell below that for females."

**Use For Lignin**

Proof that Lignin, the paper industry's most troublesome waste product, is an excellent reinforcing agent for natural, nitrile and neoprene rubber, as well as for GR-S, the general purpose synthetic, was offered at the closing session of the spring meeting of the American Chemical Society's Division of Rubber Chemistry. Nitrile and neoprene are two of the major types of synthetic rubber. Added to natural rubber in proportions of 50 to 100 pounds per 100 pounds of rubber, lignin was found to give higher tensile strengths than any other pigment at the same volume, including carbon black.

**Get Type For Purpose**

There are various types of interior varnishes. Each is made according to the purpose it is to serve. Generally speaking, interior varnishes are harder — but not as resistant to weather — as exterior varnishes. Floor varnishes, for instance, are characterized by a high resistance to abrasion in order to withstand constant traffic. Another type, furniture varnish, must not soften under the heat of the body.

**Three-Way Bed Warmer**

A versatile electric sleeping pad which at the flick of a switch can be set to warm the feet only, the back only, or the entire bed has been introduced. The pad is spread over the mattress like an ordinary mattress pad and then is covered with sheets.

**Like Under Skin**

The differences between races are very superficial. All men belong to the same zoological species, known as Homo sapiens, and their blood is the same. It is not possible to tell, by microscopic examination, or by any other known tests, what race of man a given sample of blood came from.

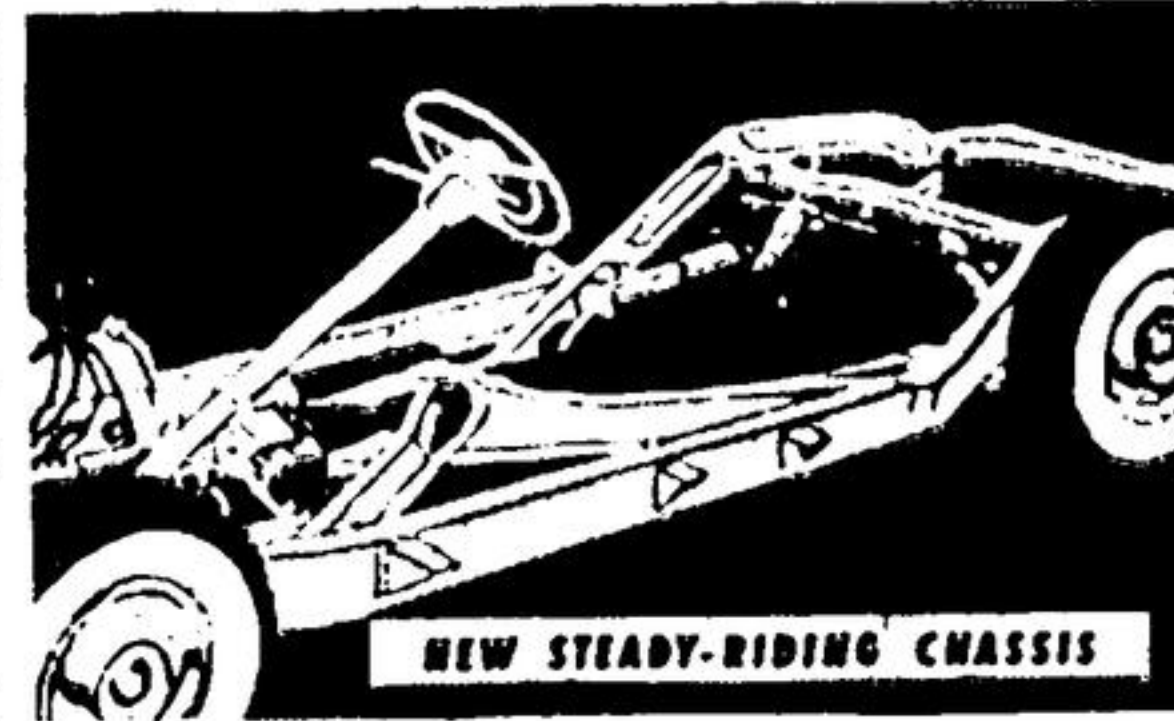
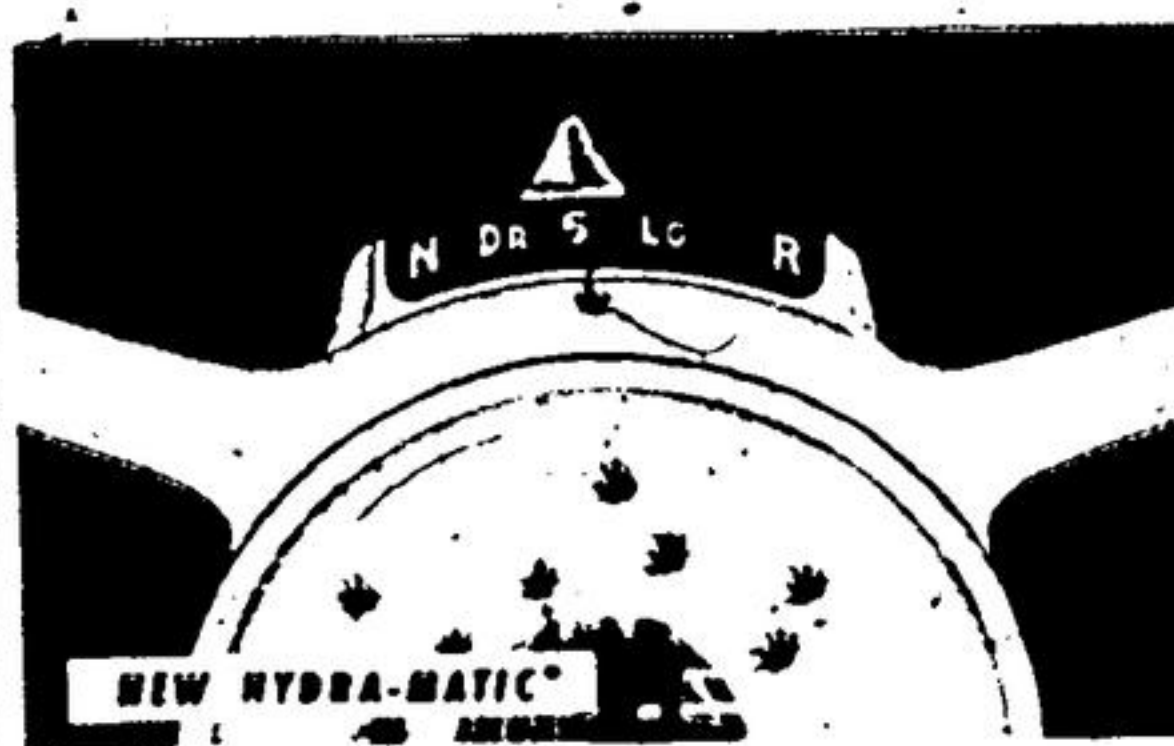
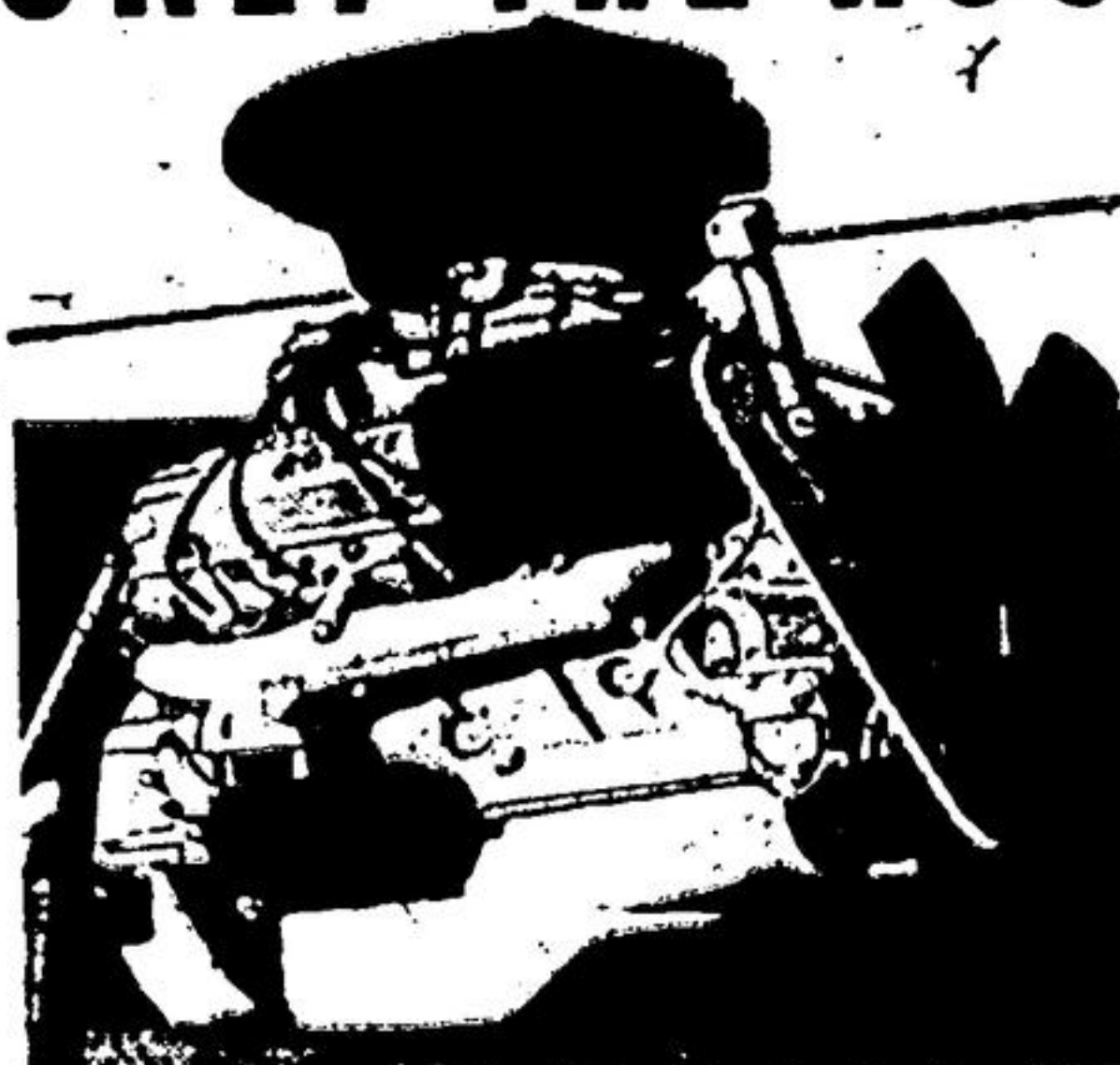
**Quick Market**

Oysters are one of the many perishable food crops that are marketed by telephone. Cargoes often are sold while they are en route in refrigerator cars. Oysters are grown by oyster farmers in coastal waters. The beds are tended carefully and it takes about five years to mature a crop.

**Cleaning Leather**

Leather can be cleaned by washing with mild soap and water. Mud is hard on leather, so remove it from shoes as soon as possible; wash it off with warm water and then rub oil or grease into the leather while it is still damp. This prevents the shoes from drying stiff and hard. For heavy shoes, oils, talcum, and grease are good lubricants.

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**Hall Exhibit, Junior Work Highlight Milton 100th Fair**

As one entered the main hall at Milton Fair the first exhibit to meet the eye was a huge five storey cake celebrating the 100th anniversary of the Halton Agricultural Society. It was a work of art and reflected much credit on the ingenuity and ability of Mr. Marshall of the White Bakery, Milton, Hall superintendent. Tom Bousfield and the lady directors had done an outstanding job in arranging a large and most attractive hall exhibit. Despite the lateness of the season, the floral exhibits were beautiful; the exhibits of home baking were such as to make one's mouth water; the exhibits of the boys' and girls and the art sections were outstanding; and the most interesting of all was the Women's Institute exhibits depicting some of the treasure of a century ago. One could spend hours looking at this section alone and still find it interesting and intriguing.

**Junior Farmer Section Also Tops**

The Junior Farmers under the leadership of president Mac Sprowl and his committee, also had reason to be proud of the result of their efforts. This year they procured a large tent to house their various sections. It was erected near the cattle rings and in close proximity to where the Boys' and Girls' Club exhibits were shown. Thus, all of the exhibits of the Junior Farmers, the Junior Institutes, the Junior Homemaking Clubs, the Garden Clubs, and the Boys' and Girls' Club, were in the same section of the grounds. A visit to the large marquee could not help but impress one with the amount of thought and effort which had gone into the planning and erection of each of the 23 different inter-club displays. In all four sections the exhibits were placed on a graded basis, A, B, or C, rather than on a competitive basis. In the Junior Farmer Class, Acton, Palermo, Milton, and Norval clubs were represented.

The Norval exhibit took as its theme "Live Stock Breedings" and focused attention on the value of "Cow Testing Records" and "Herd Classification." Farmsstead Beautification was the subject of the Milton Junior Farmers display. Their slogan, "First Impressions are Lasting" was impressive — along with

entrance and at the same time stressed the importance of prominently displaying the farm owner's name either on the mail box or the barn. According to the judges, Mrs. Bergstrum, of Churchville, a member of the Women's Institute staff, and Prof. O. Kennedy, of the Animal Husbandry Department at the Ontario Agricultural College, the workmanship on the Palermo Junior Farmer exhibit would do credit to professionals. Their theme was "100 Years Progress in Agriculture." Theme of the display of the Acton Junior Farmers Club was "Reforestation." Their exhibit was divided into two sections, one showing a hilly, rough marginal farm of 1952, and the other half the same area converted into an attractive fertile area some 18 years later, by means of reforestation and improved cultural practices. This exhibit told a story with a lot of punch, so much so that the judges awarded it the championship of the entire Junior Farmer section.

In the Junior Institute exhibit, all five clubs, Acton, Milton, Norval, Palermo, and Brookville, were represented and the first four received Grade A which should indicate that the judges rated them quite highly. The theme of the Acton Junior Girls' exhibit was "Spare Time Hobbies"; Palermo and Norval Clubs centred their displays around the "Hope Chest"; Milton Junior Institute depicted "Edible Table Decorations for Different Occasions." This exhibit while simple showed a lot of ingenuity on the part of those responsible. The Brookville Club displayed an interesting exhibit depicting the various stages in the manufacture of wool.

In the Junior Homemaking Section nine clubs were represented and Omagh and Hornby got red ribbons for Grade A quality. These two clubs centred their displays around the project "Cotton May Be Smart," which was one of two projects by Halton Junior Homemakers during the past year. Other clubs taking the same theme were Acton, Ash, and Palermo.

The other four exhibits from Norval, Nelson, Ashgrove, and Lismore Clubs took as their theme "Five Ways of Serving One Vegetable," and they too did it in very novel and attractive ways. Finally there was the Girls' Garden display, and they too

**GHIS NEWS**

**Lost Star Athlete Pole Vault Accident**

by Leona Conn  
If you have a student who belongs to GHIS, or if you read last week's Herald, you will probably already know about Jim (Pro) Timleck's accident last Monday. He was practising pole vaulting at noon hour when the pole broke and he dropped about eight feet, landing on his head and the back of his neck. Dr. Williams examined him and then Mr. Baxter who was in charge, took him to Brampton hospital to be x-rayed. It was found that he had a cracked breast bone. Now we are minus one of our best athletes.

Bowling teams from the school will be playing after four again this year. They play two games for 35c and compete against different forms. At noon hours basketball and volleyball teams have been competing against each other.

The girls are trying to organize some cheer leaders, but are having a difficult time trying to decide who the girls will be.

The choir is beginning to get back into the swing of things this year. After the marriage of Marjion Hepburn we now have Mr. Ken Harrison teaching us and he is doing a wonderful job of it.

**GLEN WILLIAMS**

**GLEN LADIES HOME FROM OVERSEAS TRIPS**

Two English travellers are back in Glen Williams again. Mrs. Percy Wagstaffe, who made the trip both ways by plane returned home last week. Mrs. Jane Haines, who also travelled by plane, brought Mr. and Mrs. Woodford with her to visit with her and with other friends in Canada. Mrs. Haines' trip included visits to East and West Huntspill, Pawlett, Bridgewater, Weston Super Mare, Highbridge, Cardiff, London, Howslow, and Athelney.

were most attractive and striking. Here Hornby and Omagh Clubs again took red ribbons, for outstanding effort. Not far behind, with blue ribbons were the displays of the Nelson, Lismore and Ash-

**BALLINAFAD**

**MRS. KIRKWOOD LEADS WMS WORSHIP SERVICE**

The WMS held their September meeting at the home of Mrs. F. J. Shortill. The meeting opened with the call to worship and hymn "Thy Ceaseless, Unexhausted Love". The worship service was led by Mrs. Kirkwood, the theme being "God's Grace — The Water of Life". In the Old and in the New Testament God's grace has been likened to streams or springs of water which bring to men everywhere new and abundant life. By God's grace we mean God's love, the whole of God's nature is to love and His love is revealed to us in Jesus Christ. The roll call was answered by a Scripture verse containing the word love. Books read and visits made to the sick and shut-ins were recorded. The new study book "Along African Trails" was introduced by Mrs. F. Smith and told of the first part of Dr. Gallagher's visit to African mission fields giving a word picture of the redemptive work being done. Thoughts on Christian Stewardship were given by Miss Hills. Mrs. F. J. Shortill had prepared a Bible Quiz on special prayers found in the Bible.

Our sympathy is extended to Mr. and Mrs. MacLaughlan in the death of Mr. MacLaughlan's sister, at Owen Sound last week.

Two carloads of ladies motored to Ospringe last Wednesday to attend an afternoon tea and program in aid of the furnace fund of the church there. Mrs. Graham of Guelph Salvation Army was present and gave a short address.

**FIRE BRIGADE CALLED TO PARK GRASS FIRE**

A grass fire on property of John Inglis, Maple Avenue West adjoining the park got out of control Friday afternoon and necessitated a call to Georgetown Fire Brigade. The fire was put out in a matter of minutes after the brigade arrived.

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