

This is the best month to dig up and transplant crown imperial as the bulbs rest in the summer.

Helpful calves mature into milk-producing cows in approximately three or four years; the longest production cycle of any major food product.

### Looking Ahead

By DR. GEORGE S. BROWN

(Continued from Page Two)

ed, with Soviet approval and with the Russians completely withdrawing from Eastern Germany; a unification of the two halves of Korea and Indo-China, after the withdrawal of all Communist Chinese troops and Kremlin agents from the northern halves of these countries. These are practical considerations. They would not molest the present Communist empire except at the three points, in Germany, Korea and Indo-China where nations are split naturally.

There is, of course, another acid test to which the Kremlin must be subjected before the U. S. accepts Soviet Russia as a decent world consideration. The demand for this mandatory acid test would be a test of the moral character of the U. S. A. The test is this: All the nations that have been subverted or otherwise taken over by Communists must be freed and permitted to choose their own way of life.

Intensive studies of the structure of the bridge model, especially directed by Prof. F. B. Farquharson, have just been completed in the Suspension Bridge Laboratory at the University of Michigan. Arrangements for tests of high-velocity wind-tunnel tests were made at the request of David B. Steinman, designer of the Mackinac Bridge. Now it is Steinman's prediction that the Mackinac Bridge would have perfect aerodynamic stability.

Tests on the scale model show that the bridge will resist the dynamic action of winds moving at velocities approaching 1,000 miles per hour.

The further show that the bridge, as designed, has complete stability against all modes of oscillation (vertical, torsional, and coupled), at all wind velocities and all angles of attack.

Scientists investigating the stability of the bridge were amazed to find that they had to modify their test equipment since this bridge has features of stability much higher than had ever been previously investigated.

The bridge model was also tested for the hypothetical and abnormal condition where all openings in the bridge deck are closed to be completely closed by ice. Even here it was found that the Mackinac Bridge has complete and absolute aerodynamic stability against all modes of oscillation at all wind velocities, up to fantastic and impossible orders of magnitude: namely, velocities of 432 miles per hour for the lowest mode of oscillation and 542 miles per hour for the next higher mode. The highest wind velocity ever recorded in the vicinity of the bridge site is 74 miles per hour.

### New Mackinac Bridge To Be Safest In The World, Recent Tests Prove

Wind-tunnel tests on a large-scale model of the Mackinac Bridge show that the new \$100-million structure, soon to link Michigan's upper and lower peninsulas, will be the safest suspension bridge in the world. President M. Brown, chairman of the Mackinac Bridge Authority, receiving the final report on aerodynamic testing of the bridge model, expressed the Authority's great satisfaction with the test results.

"We have always had confidence in Dr. Steinman's design for the Mackinac Bridge. Now it is extremely gratifying to know that the testing laboratory confirms his plan," said Brown.

As a point of comparison, similar wind-tunnel investigations show the critical wind velocities of other notable suspension bridges to be only 1/10th those of the Mackinac Bridge.

In submitting his report to the Authority, Dr. Steinman points out that the excellent stability has been achieved by scientific designs of the cross-section to eliminate the possibility of aerodynamic instability.

Dr. Steinman explains that the outstanding feature of the design is the provision of wide open spaces between the stiffening trusses and outer edges of the roadway, a concept he developed many years ago. The bridge trusses are spaced 68 feet apart and the roadway is only 48 feet wide. This leaves 10-foot-wide open space along the entire length of the bridge. The design also provides the equivalent of an open grid construction. Maximum stability has been achieved by providing two systems of lateral bracing, located in the planes of the top and bottom chords of the truss (a feature recently added to the Golden Gate Bridge).

Michigan Mirror

(Continued on Page 2)

tic and economical answer to our problems of higher education," he said.

POLITICAL SPEERS PLACE significance in the company Governor Williams kept at the governor's conference in Chicago.

They expect Williams to make his move toward the national Democratic political scene soon, and his every maneuver is tested for signs and portents.

The four-term Democratic governor took Lt. Gov. Philip A. Hart and Rep. Ed Carey (D-Detroit) to the conference — possibly for the experience.

Hart is being groomed as the heir-apparent if and when Williams ever leaves the executive office. Carey, a former CIO official, is the Democratic wheel-horse in the House.

If Williams moves out, Hart and Carey will be very much in the news as leaders of the party Williams leaves.

### V.F.W. Members Attend Meeting

Delegates from 35 Veterans of Foreign Wars Posts in Oakland and Macomb Counties met Sunday, August 21, for the summer rally of the Fifth District at Post 1784 in Mt. Clemens.

Fifth District Commander George Dempsey of Farmington presided at the business session. Department inspector Jim Tribbey conducted a school of instruction for Post officers at 10:30 a.m.

While the men were meeting, delegates from Ladies Auxiliary units in the Fifth District attended a school conducted by Oakland County Service Officer Fred Galie way on Dependency Claims.

Olame Gotschalk, Fifth District President, presided at the Auxiliary business meeting and Augusta White, Department of Michigan secretary - treasurer, was guest speaker.

What makes a business grow is a certain man who insists and insists with integrity.

### Over The Hills -- Into The Orchard

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Newest residents of this area are Mr. and Mrs. George Martin and children. The Martins moved into their newly-completed home last Thursday.

Mr. and Mrs. Raymond Jaibert of 34695 Thornbrook entertained several friends at the Western Golf and Country Club this past week end.

David VanLoon celebrated his eighth birthday on August 18 in a most unusual way. His guests, brother Frank and sister Barbara and Phil Gail and Carl Madigan, first enjoyed cake and ice cream and then were treated to an afternoon of rides and thrills at Edgewater Park.

Mr. and Mrs. Glen Griffin of Raphael Road have been enjoying the company of Mrs. Griffin's

### LOCALS

The Nelson Vanderburghs of Waldron Lane returned home from a visit with relatives at South St. Marie last week. While there they enjoyed the Centennial Celebration at the Soo Locks.

Mrs. Jane Ryall returned to her home on St. 27, this Saturday after spending two weeks at Wayne, Michigan. Her daughter, Barbara, is now here on a visit from California.

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