

WANTS DAMS TO REGULATE LAKE

Dean Hayford Opposes Cut in Drainage Flow

"Hundreds of lives will be lost each year, and ultimately thousands, if the proposal to cut down the flow of water in the Chicago drainage canal from 10,000 cubic feet per second to 4,000 cubic feet is successfully pushed through," said Director John F. Hayford, head of the Northwestern University Engineering school, to students at chapel on the Evanston campus late last week. Director Hayford, who is famous not only as an engineer but for his research work upon waterways and great lake levels, strongly opposed the suggestion of certain elements in Canada, Wisconsin and navigation circles that the way to remedy the situation is by reducing the amount of water now being diverted from Lake Michigan into the drainage canal and Illinois river.

Backflow Now

"Even at present with 10,000 cubic feet of water running out of Lake Michigan into the drainage canal, there is once a year, at least, a backflow of water into the lake," said Director Hayford. "This means that much sewage is swept into the source of our drinking water supply and it is merely a matter of luck as to whether this sewage pollutes the water around the intakes. Last summer my belief is that it did, as there was much typhoid in the Chicago district. Just what causes this backflow is problematical but it may be heavy rains raising the river level so that the flow is back into the lake despite the pumping force, or that the lake level suddenly drops and effects a backflow. But, whatever the cause this backflow is dangerous. Now, if the current is made more sluggish by reducing the flow from 10,000 cubic feet per second to 4,000 cubic feet, the backflow into Lake Michigan would take place four or five times a year. Ultimately this would make absolutely certain typhoid epidemics that would sweep out hundreds if not thousands of lives each and every year."

Dams Suggested

Director Hayford advocated the building of regulation dams near Buffalo and further down the St. Lawrence river—a plan which the Chicago drainage trustees already have offered to effect.

"For two and a half to eight millions of dollars," he explained, "two regulating dams could be built, one at Buffalo where the Niagara river leaves Lake Erie, and one in the St. Lawrence as a part of the St. Lawrence project. These dams properly operated would restore all of the depth lost by Chicago's diversion of 10,000 cubic feet per second—and more—and would put the lakes at a higher level during the dry years than they would be in a state of nature and would not put the lake levels above the danger limit in flood years."

Favors Waterways Plan

Director Hayford summarized his views upon the drainage and deep waterway problems of the Middle West in these terms:

1. Carry out the St. Lawrence project.
2. Take out 10,000 cubic feet of water per second at Chicago and use it for sanitation.
3. Build dams with movable parts at Buffalo and in the St. Lawrence river and use them wisely to regulate the levels of the lakes.
4. Build a submerged dam at Niagara Falls to prevent the backward

travel of the falls (five feet each year) and the wasting of water where it does no good, either for scenic purposes or for power.

5. Utilize the full 300-foot drop from Lake Erie to Lake Ontario for developing water power instead of a half only.

6. Utilize the power opportunities in the St. Lawrence to the full, as rapidly as the market for power can be developed.

The Northwestern engineer and scientist also pointed out that regulating dams would more than overcome the loss of water over the St. Clair flats above Detroit where one-tenth of a foot drop in level means a matter of 600,000 loss in freight revenue to shippers each year. Therefore from a business as well as a sanitation and humane standpoint, he urged that no change be made in present waterflow into the drainage canal out of Lake Michigan.

Soldier Troop to Help Put Over N. U. Circus

A crack troop of cavalry from Fort Sheridan will give an outdoor and indoor exhibition at the Northwestern University Annual Circus which is scheduled for Friday and Saturday, May 2 and 3. This announcement by Gail Belden, assistant manager of the collegiate show, was synonymous with a statement by the publicity manager that Charles Chapman, well known cameraman of Pathe News, will be present all day Saturday to snap the most interesting and sensational numbers for his screen weekly.

Saturday is the big day and the expert horsemen from Ft. Sheridan will perform before the big show that afternoon and will give an inside exhibition the same evening. The big parade in the early afternoon which will be a take-off of campus activities and will also depict historical incidents will be, it is stated, the most novel ever staged at Northwestern. A large Ferris wheel and a real merry-go-round are to be put into place for both Friday and

Saturday and these with the usual concessions will give a colorful amusement note to the entire affair. The parade starts at Patten gymnasium about one o'clock.

The program in full for Saturday follows: 1 o'clock—Parade of floats, clowns and performers; 2:30—Cavalry exhibition sabre drill; 3:00—Inter-scholastic, intersorority relays; 3:30—Cavalry exhibition of novelty riding; 4:30—Water circus, Northwestern intercollegiate champion swimmers and other natatorial stars in indoor pool; 8:15—Main evening performance; 10:30—Dance at Patten gymnasium.

Close Subscription Books for Civic Opera on May 15

Two weeks are left during which regular opera patrons may renew their subscriptions to the Chicago Civic Opera. On May 15, the books will be closed to renewals and they will not be reopened again until June 1, not for any reason whatsoever, according to the management.

On the latter date the books will be thrown open for the sale of subscriptions to the general public. First applicants will then have the choice of all unsold seats. Subscription performances will be given during the 1924-25 season on Monday, Tuesday, Wednesday and Thursday nights and on Saturday afternoons.

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Ralph Morphett Will Speak Before Men's Class

Ralph Morphett, a resident of Winnetka and an authority on Y. M. C. A. and other religious work, will be the speaker at the session of the Men's Sunday Morning class of the Congregational church on May 4.

Mr. Morphett's subject will be: "The Message of the Book of Jonah."

He is announced in the class notices as a speaker "well worth hearing" who should claim the attention of every man in the village.

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