POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., TUESDAY, OCTOBER 25, 1921

MOON FLEW TRACK CENTURIES AGO

Was About 12 Miles Ahead of the Schedule at Recent Eclipse, Cable Reported—2 Seconds Gain a Century.

(New York Times.) The moon has been off its course for at least 250 years, according to Dr. Ernest William Brown of Yale, author of "A New Theory of the Moon's Motion" and other works on the moon, who discussed yesterday the cable from London saying that observations during the late eclipse showed that the moon was about twelve miles ahead of its schedule. twelve miles ahead of its schedule.

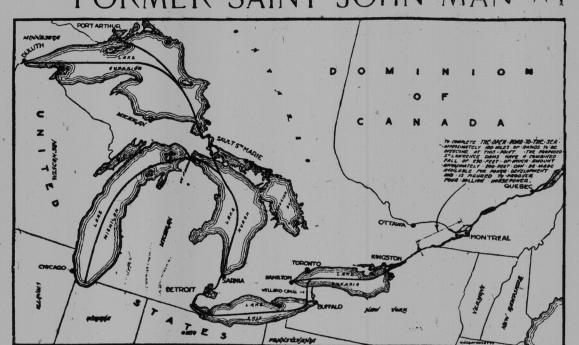
"It has been known for forty or fifty years that the moon's motion did not perfectly follow the path calculated for it," said Dr. Brown. "It apparently gains a second of time and then gradually falls back again. The late Dr. Simon Newcomb studied observations of the moon over a period of 250 years and discovered that this unaccountable motion had taken place during the entire period."

The sun and earth are known to be great magnets. The moon is probably a magnet also, and one guess is that the interaction of these magnets produces an observable effect on the moon. There is no other known effect of magnetism on the motion of astronomical bodies and no way to check up this theory. It has been suggested that some undetected and comparatively small mass of matter may move around the earth and disturb the moon by gravitation, but

andths of a second.

The is a doubt, according to the momer, however, whether the monof the edge, or limb of the moon, turns round, has been established exactness. A slight error here, he might account for the effect now and the effect now are received. wn that the moon's course fails

FORMER SAINT JOHN MAN AT THIS IMPORTANT CONVENTION



MAP OF THE PROPOSED "OPEN ROAD TO THE SEA"

The proposed Great Lakes-St. Lawrence route over which ocean vessels are someday expected to make direct voyages from European Ports to the head of Lake Superior is illustrated in the accompanying map and will be the subject of discussion at a two days' convention to be held in Hamilton on Nov. 1 and 2 under the auspices of the Canadian Deep Waterways and Power Association. The convention will be one of the most important of the year.

The campaign for the improvement of the St. Lawrence River Canals and Locks, has made great progress in the past two years. The improvement affects only 40 miles in the St. Lawrence out of a total of 2,500 miles of inland waterways. When the New Welland Canal is completed it will be capable of accommodating 95 per cent. of all the vessels in the world.

Engineers representing the governments of Canada and the United States have a superior of the governments of Canada and the United States have a superior of the governments of Canada and the United States have a superior of the superior of the superior of the States have a superior of the superior of the States have the superior of the States have the superior of the superior of the States have the superior of the

Engineers representing the governments of Canada and the United States have reported that the improvement of the waterway can be accompanized by an ultimate development of 4,000,000 horsepower of electrical energy, and an initial development of 1,460,000 horsepower, and the whole of the navigation works can be constructed at a cost of \$252,000,000. The power developed, they claim, will pay for the cost of the entire works.

'Amateur' Organiation Soon to Give Public Concerts at Art Institute.

Among Chicago's business and professional men there are so many highly skilled musicians without an audience

matter may move around the earth and disturb the moon by gravitation, but pr. Brown said that it had been established positively that gravitational forces did not account for occasional bursts of speed and periods of slowing-up exhibited by the moon.

Although the moon by gravitation, but second per century which the moon is second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation, but second per century which the moon by gravitation become and created the Chicago Amateur orchestra.

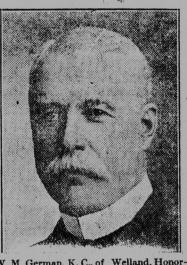
This orchestra has been in actual existence for a month and has sixty-five intended by the moon.

Although the moon by gravitational properties in some mysterious way.

A similar observation in the latter the Art institute has taken the Art institute has ta



fourth symphony of Brahms, which will be given publicly soon. It is planned to have concerts monthly at the Art institute, which will be free to the public. fessional men in Chicago who have made a thorough study of instrumental music and who have played at their own homes have been desirous for a long time of getting an opportunity to express their musical skill in public," said Mr. Clark. "It goes without saying that they are ardent lovers of music and play for the "This orchestra is the contribution of these music-loving business men to Chicago and its people who find delight in music. There will be no charge for con-



W. M. German, K. C., of Welland, Honorary President.





Macture Scianders, F. R. G. S., of Windsor, Hon. Sec. Treasurer.







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