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### SCHOOL OF NAVIGATION

#### A Report is Made Upon the Work Done at Queen's.

At the meeting of the Board of Education on Thursday night, Trustee W. J. Renton submitted a very interesting report on the work of the Industrial committee. The report is as follows:

"The industrial committee paid a visit to the School of Navigation and the class for marine engineers now being conducted in Queen's University buildings. Those present were Trustee Lemmon, chairman of the board; trustee W. Cook and Messrs. C. Macpherson and John Birkenhead. The visit was most interesting. The classes were well attended by an exceptionally desirable class of students and the indications were that every provision is being made for the operation of successful classes.

"The school of navigation is now on the seventh session. Begun as a private venture by Capt. McMaster, of the Montreal Transportation Company, it was transferred to the university in 1914. From a small class it has gradually grown until it now has an enrollment of forty-one. The equipment of books, charts, tables, etc., is very complete. The school is instructed by Capt. A. Barrett, and is under the direction of Dean Clark, of the Science faculty.

"The average daily attendance is 12; number registered, 41; studying for masters' coasting certificates, 9; mates' do., 5; masters' inland certificates, 7; mates' do., 7; mates' minor do., 1; general knowledge, 12.

"Number who have passed examinations, 8; number to try, 21. Those who attend for general knowledge usually take the examination set by the university. It is of a more searching character than set by the department of marine and fisheries.

"About fifteen out of the total number did not hold any certificate. The balance either have masters' or mates' inland or minor waters certificates, or mates' coasting certificates. The highest grade of certificate is for masters' coasting. No one as yet has tried this examination, but several are expected to try this month. There are only two of these certificates in Kingston, and these were obtained elsewhere before this school was in operation.

"The inland waters examination includes dictation, arithmetic, composition, seamanship, chartwork, lighthouses, masters' business, rule of the road, deviation, pelorus, cargo, and ship construction; and coasting trade, in addition to the subjects named, includes meridian altitude, mercators, amplitude, azimuth, sextant, signals, longitude, etc.

"This year a new class for marine engineers was formed, with F. Norris, chief engineer of the steamer Westmount, in charge. Seven students have already passed their examination and others are preparing. The class is open to engineers for all grades of certificates.

"The courses for marine engineers consist of reading, writing, arithmetic, management of boilers, the barometer, thermometer and salinometer, incrustation and corrosion, tanks, burners, pumps, furnace bars, valves, dynamo, electric light machinery, steering engines, mechanical drawing, etc.

"The number registered is 22; average daily attendance, 16; studying in fourth class, 4; third class, 8; second class, 7; first class, 2; general knowledge, 4.

"Number who passed, fourth class, 4; third class, 1; second class, 2. A number of those attending the school this term will not have completed their studies this term, so will attend next year. There will be a number of engineers who do not reside in the city attending the school next season.

### LAST ASTRONOMY LECTURE

#### Given at Queen's on Thursday Afternoon by Dr. S. A. Mitchell.

On Thursday afternoon Dr. S. A. Mitchell combined his lecture of the afternoon, "What Astronomy Owes to the Engineer," and "How Big is the Universe" which was to have been given in the evening, and gave the last of an excellent course on astronomy to a large and appreciative audience in convocation hall. At the close of the lecture Principal R. Bruce Taylor thanked Dr. Mitchell for the illuminating course of lectures he had given. He said that Queen's was always glad to welcome the lecturers, and especially when they were her graduates. Dr. Taylor remarked that the lecture would cause one to think of the small part man plays in the universe and yet what a profound knowledge he has of its workings. Dr. Mitchell, in replying, stated that he was glad to return to Queen's once more. He had always found the grounding in mathematics which he had received under the instruction of Prof. Dupuis one of the best, and one which had been essential to him in the study of his profession.

Showing first of all slides of the moon, Dr. Mitchell pointed out the features visible, such as plains, and high mountains, which equal in height those of the earth, which is remarkable as the moon is but one quarter that of the earth in diameter. It is interesting to note that the height of the mountains is calculated from the length of the shadow cast as seen in the plates taken. The moon is a barren body which has no life on it due to the absence of air.

Astronomy owes much to the engineer in the perfection of the telescope. The various types of instruments used were shown on the screen from the Galileo's first to the huge ones of the present day. The lecturer has done much work with the telescope used at the University of Chicago, which is the largest refracting telescope in the world. This instrument is sixty-two and a half feet long, has a forty-inch lens, weighs fifty tons, twenty of which are movable parts, which can be moved by electric motors. The dome in the observatory weighs one hundred and forty tons, is ninety feet in diameter, and can also be moved.

Another form of telescope used is that for work on the sun. This is known as the tower telescope. Here also, the engineer has to provide a very steady tower which will be unaffected by the wind. Mount Wilson, California, has a couple of these telescopes.

The stars are popularly described as being numerous as the sands on the sea shore, but with the naked eye we can see less than five thousand, while the largest telescopes bring within the power of vision two hundred million of stars each of which is like the sun and many thousands of which are much more brilliant than the sun which appears bright to us merely because of its proximity. Dr. Mitchell said that many people were disappointed when they looked through a telescope and saw that the stars were not, as they had believed, five or six pointed, but were really like the sun in shape. Many pictures were shown of the milky way, which the lecturer impressed was made up of a large number of separate suns.

At Mount Wilson observatory, considerable work has been done in measuring the distance to Betelgeuse and yet more work will have to be done before the discussion is concluded. The universe is indeed large when it is learned that some of the light reaching the earth left its source two hundred thousand years ago. When we think of the size of

### FORMER FRONTENACER DIES

#### Pleuro-pneumonia Hastened End of Bright Young Man.

In the death of Dawson Beatty Walker, on Tuesday afternoon, Feb. 15th, in his eighteenth year, St. Catharines lost one of its most popular and highly respected young men. His death was a shock to everyone. He took the "flu" and it developed to pleuro-pneumonia, but in spite of the best medical care and nursing he passed away. Dawson was a general favorite with old and young alike, his charming personality making him a host of friends. He was born in Florida, July 10th, 1903.

The funeral took place on Friday, at 2 p.m., at the home of his sister, Mrs. Thomas Cain, 47 Berryman avenue, service being conducted by Rev. A. W. Thompson, and the choir of Haynes avenue Presbyterian church rendered the singing. Six of his chums were pall-bearers. Placed on his casket were a great many beautiful floral tributes.

Besides his mother and father he leaves one brother, Stanley, and four sisters, Mrs. Sydney Monro, Wellington, Ont., Mrs. Fred Kindall, Toronto, Ont., Mrs. Thomas Cain and Mrs. Russell Higgins, St. Catharines, to mourn his loss.

Among the out-of-town relatives who attended the funeral were: Mr. and Mrs. John Burnett, Harry Burnett, Havelock; Miss Rose Cramer, Toronto; Fenwick Cramer, Kingston; Parker Walker and son, Parker, Buffalo, N.Y.; Mrs. Sidney Monro, Wellington; Frank Church, Vineland Station, Mr. and Mrs. Harold Higgins and Harry Higgins, Thorold.

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SOFT HATS—in all colors.  
STIFF HATS—newest blocks.  
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GOOD CAPS by the hundreds.

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"The Big Hat Store"

the earth we are amazed, and yet it is but small compared with the sun which is in turn insignificant when compared with the rest of the universe. Yet the human mind is infinite and fathoms space and learns much about the universe. Dr. Mitchell concluded with the remark that astronomy, more than any other science, has shown the power of the human mind to fathom the mysteries of life.

THE LATE N. F. HUGO  
Duluth Engineer Was Born in Kingston Sixty Years Ago.  
The late N. Frederick Hugo, Duluth, Minn., who died on Feb. 22nd, was sixty years of age. He was born in Kingston, and went to Duluth in 1881 and for many years he was a marine engineer. Later he became a member of the contracting firm of Hugo & Tims and in this capacity he executed some big contracts, including the municipal water supply system of Duluth, and a number of harbor improvements on Lake Superior. He was a member of the board of aldermen in Duluth for two terms and served three terms in the Minnesota house of representatives during 1903, 1905 and 1907.  
Mr. Hugo was appointed a Lieutenant in the Minnesota naval reserves when it was organized in 1903. In 1910 he was promoted to Lieutenant commander. When war broke out he went into the federal service and was assigned to the battleship Massachusetts as chief engineer. Later, he was transferred to the Hancock, which was used in transport service.  
Mr. Hugo is survived by two brothers, Francis M. Hugo, Watertown, N.Y., and Mayor Hugo, of Duluth; his widow, one daughter, Mrs. Dwain Smith, Winnipeg; one sister, Mrs. F. A. Kirkpatrick, Kingston.

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Children's Corset Waists; sizes 19 to 26 . . . . . Saturday 69c.  
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Ladies' Overall Aprons—large or small sizes; pretty patterns— . . . . . Saturday \$1.00  
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A Clearance in Ladies' Silk Skirts—sizes up to 28; \$15.00 garments for . . . . . \$8.95  
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