



# NAVAL MARINE ARCHIVE

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**Canadian Charitable Organization 88721 9921 RR0001**

U OF T – E NGINEERING

DUGGAN, GEORGE HERRICK

### **BASc 8T3 Civil (1883) Inducted: 1989 Hall of distinction**

George Herrick Duggan's (1862-1946) prime skills appeared both over the water and upon it, for his bridge engineering and yachtsmanship alike won international acclaim. After an SPS postgraduate year and CPR's BC Mountain Division (1884-85), he moved East to begin a long, varied and eminent career with Dominion Bridge Co., and many other organizations. He was Chief Engineer of St. Lawrence Bridge Co. during the completion of the Quebec Bridge (1917). Notable pioneering included electric-welded steel assembly and vast improvements in papermaking machinery.

Noteworthy contributions came through high office in professional bodies, which were broadly acknowledged: Royal Humane Society Medal (1893), Honorary Doctorates from Queen's University, University of Toronto and McGill University (1919-21), Duggan Medal, established by ETC in 1935.

His yachting skill, both in design and sailing, was known all over the continent. He was involved in several famous clubs (founder, member and/or officer), and during 1896-1901, he brought fame to Canada by winning the International Cup in a vessel of his own design.

<http://my.alumni.utoronto.ca/s/731/index.aspx?sid=731&gid=36&pgid=2112>

## **QUEBEC HISTORY**

### **GEORGE HERRICK DUGGAN**

DUGGAN, George Herrick, LL.D., D.Sc. - President, Dominion Bridge Co., Ltd., Montreal; President, Dominion Engineering Works, Ltd.; Director, Royal Bank of Canada; Director, Montreal Trust Co.; Director, Steel Co. of Canada; Director, Wayagamack Pulp and Paper Co.; Director, Hillcrest Collieries; Director, Foundation Co.; Director, Mount Royal Hotel Co. Born Toronto, Sept. 6th, 1862, only son of late John Duggan, Q.C., and Amelia (Tulloh) Duggan. Educated: Upper Canada College; School of Practical Science; Toronto University (1883); post-graduate course (1884); Honorary Degree; LL.D., Queen's University and McGill University; D.Sc., Toronto University: Was Chief Engineer of the St. Lawrence Bridge Company when that company designed and constructed the steel superstructure of the Quebec Bridge. Engineering Dept. C.P.R., 1884-1886; Engineering Dept., Dominion Bridge Co., 1886-1901; Chief Engineer, 1891-1901; Asst. to President and Consulting Engineer, Dominion Steel Co. and Dominion Coal Co., 1902-1903; 2nd Vice-President and General Manager, Dominion Coal Co., 1904-10; 1910-11, Chief Engineer, Dominion Bridge Co., subsequently General Manager; Past Member of

Council, The Institution of Civil Engineers, England; Member and Past President, Canadian Society of Civil Engineers, now Engineering Institute of Canada; Member, American Society Civil Engineers; Member, Canadian Mining Institution (Vice-Pres., 1906; Councillor, 1911-13) ; one of the founders Toronto Yacht and Royal St. Lawrence Yacht Clubs; Amateur Yacht Designer; designed and sailed winner SEAWANHAKA International Cup, 1896-1901; Captain, Toronto Yacht Club, 1883-84; Commodore, Royal St. Lawrence Yacht Club, 1889-90; Honorary Commodore, 1915 to date; Commodore, Royal Cape Breton Yacht Club, 1905-10. Awarded Royal Humane Society's Bronze Medal and Certificate, 1893. Married Mildred Scarth, daughter of Pillans Stevenson, Montreal , Oct., 1888; two sons, - H. S. Duggan, R.E., killed in action, Oct. 21, 1915 ; second son, Major K. L. Duggan, killed in action, Oct. 30, 1917 , - and one daughter. Clubs: Mount Royal; St. James's; University; Forest and Stream; Mount Bruno Country; Royal Montreal Golf; Royal St. Lawrence Yacht (Montreal); Royal Canadian Yacht (Toronto); Royal Care Breton Yacht (Sydney); Royal Hamilton Yacht; Garrison (Quebec); Rideau (Ottawa). Recreations: Yachting, outdoor sports. Anglican. Residence: 120 McTavish Street, Montreal.

Source: PROMINENT PEOPLE OF THE PROVINCE OF QUEBEC, 1923-24, Montreal, Biographical Society of Canada, Limited, undated and unpaginated.

<http://faculty.marianopolis.edu/c.belanger/quebechistory/encyclopedia/DugganGeorgeHerrick-QuebecHistory.htm>

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1. 1880 - Founded Toronto Yacht Club
  2. 1896-1903 - Skipped Seawanhaka Cup winning yachts
  3. 1896-1904 - Designed Seawanhaka Cup winning yachts

George Herrick Duggan, known as the "Dean of Canadian Yachting," was a master ship designer, builder, and skipper. Over the course of his life, he designed and built 142 boats, nine of which successfully competed for the Seawanhaka Cup, the most prestigious prize for small-class yachts around the turn of the 20th century.

Duggan spent part of his boyhood on Toronto Island, where he learned the art of sailing and the science of shipbuilding from island boatman William Armstrong. He began designing and building his own boats as a teenager, testing them on the waters of Lake Ontario.

Eager to develop and encourage yacht racing, Duggan and a few of his friends broke away from the Royal Canadian Yacht Club in 1880, founded their own Toronto Yacht Club, and subsequently started the Lake Yacht Racing Association.

Duggan, meanwhile, was reinforcing his ship designing skills as a civil engineering student at the University of Toronto. Upon graduating in 1884, he worked for the CPR, then joined the Dominion Bridge Company of Montreal, where he became chief engineer and assistant to the president. Still a passionate yachtsman, Duggan continued to build ships for Montreal's Royal St. Lawrence Yacht Club.

In 1895, the Seawanhaka Corinthian Yacht Club of New York established the Seawanhaka Cup, an international competition for small classes of yachts. The first challenger was the Minima Yacht Club of London, England, which sent their 15-foot Spruce IV to take on the American Ethelwynn at Oyster Bay. The Seawanhaka Club ship was victorious, and the Cup remained in its home.

Word of the British defeat drifted northwards, and the sailing committee of the Royal St. Lawrence decided to send a Canadian-built yacht into competition. Some 18 boats were built in preparation, including five designed

by Duggan. It was Duggan's Glencairn, which he himself skippered, that was selected for the finals. In his first salt-water race, the Canadian yachtsman successfully defeated the American El Heirie and claimed the Seawanhaka Cup for Canada.

Over the next eight years, Duggan's ships could not be matched. American and British challengers persisted, but the Cup could not be wrested from the able hands of captain Duggan. A brilliant seaman, Duggan skippered all but the last of his victorious ships; when business called him to Halifax in 1904, he left the last of his champion vessels under the control of another captain.

Duggan's most remarkable but controversial boat was the Dominion. Built for the 1898 Seawanhaka Cup challenge, the Dominion had a floor that was arched between the two bilges, forming a tunnel, instead of a flat surface. The American competitors protested on the grounds that she was a catamaran, and that such double-hulled ships should not be permitted in competition. Duggan maintained that she was simply a single-hulled ship with two water lines, and the race went forward. The Dominion easily won, but officials agreed not to accept ships of this sort again.

In 1905, the Duggan and the St. Lawrence Yacht Club finally met defeat at the hands of the Massachusetts Yacht Club's Manchester. No other club, however, could match the incredible nine consecutive victories achieved by the Canadians.

Duggan continued to work in the engineering world. He was involved in the design of high-performance paper machines and in the development of electric steel welding. He was president of the Dominion Bridge Company from 1919-36 and chairman of the board from 1936-46.

[http://www.sportshall.ca/accessible/hm\\_profile.php?i=322](http://www.sportshall.ca/accessible/hm_profile.php?i=322)

DUGGAN, George Herrick, LL.D., D.Sc. - President, Dominion Bridge Co., Ltd., Montreal; President, Dominion Engineering Works, Ltd.; Director, Royal Bank of Canada; Director, Montreal Trust Co.; Director, Steel Co. of Canada; Director, Wayagamack Pulp and Paper Co.; Director, Hillcrest Collieries; Director, Foundation Co.; Director, Mount Royal Hotel Co. Born Toronto, Sept. 6th, 1862, only son of late John Duggan, Q.C., and Amelia (Tulloh) Duggan. Educated: Upper Canada College; School of Practical Science; Toronto University (1883); post-graduate course (1884); Honorary Degree; LL.D., Queen's University and McGill University; D.Sc., Toronto University: Was Chief Engineer of the St. Lawrence Bridge Company when that company designed and constructed the steel superstructure of the Quebec Bridge. Engineering Dept. C.P.R., 1884-1886; Engineering Dept., Dominion Bridge Co., 1886-1901; Chief Engineer, 1891-1901; Asst. to President and Consulting Engineer, Dominion Steel Co. and Dominion Coal Co., 1902-1903; 2nd Vice-President and General Manager, Dominion Coal Co., 1904-10; 1910-11, Chief Engineer, Dominion Bridge Co., subsequently General Manager; Past Member of Council, The Institution of Civil Engineers, England; Member and Past President, Canadian Society of Civil Engineers, now Engineering Institute of Canada; Member, American Society Civil Engineers; Member, Canadian Mining Institution (Vice-Pres., 1906; Councillor, 1911-13) ; one of the founders Toronto Yacht and Royal St. Lawrence Yacht Clubs; Amateur Yacht Designer; designed and sailed winner Seawanhaka International Cup, 1896-1901; Captain, Toronto Yacht Club, 1883-84; Commodore, Royal St. Lawrence Yacht Club, 1889-90; Honorary Commodore, 1915 to date; Commodore, Royal Cape Breton Yacht Club, 1905-10. Awarded Royal Humane Society's Bronze Medal and Certificate, 1893. Married Mildred Scarth, daughter of Pillans Stevenson, Montreal , Oct., 1888; two sons, - H. S. Duggan, R.E., killed in action, Oct. 21, 1915 ; second son, Major K. L. Duggan, killed in action, Oct. 30, 1917 , - and one daughter. Clubs: Mount Royal; St. James's; University; Forest and Stream; Mount Bruno Country; Royal Montreal Golf; Royal St. Lawrence Yacht (Montreal); Royal Canadian Yacht (Toronto); Royal Cape Breton Yacht (Sydney); Royal

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<http://www.legacyfamilytree.ca/Duggan/110.htm>



*"Braehead" -- Notman Archive (McCord Museum)*

Braehead was built in the English Gothic style by James Brown in 1861 for Orrin S. Wood, the manager of Allan's Montreal Telegraph Company. It is still located at the top of McTavish Street and was constructed of Montreal limestone taken from the demolished house of Simon McTavish which previously occupied the site. In 1879, Wood sold the house to Matthew H. Gault, who lived in it for many years before giving it to the army as a convalescence hospital for disabled soldiers. George H. Duggan bought Braehead in 1929 and occupied it until 1944, at which time he donated it to McGill with the proviso that he would live there until his death. In 1946, after Duggan had passed away, McGill's School of Commerce (now the Faculty of Management) moved in. Since the faculty already had possession of Purvis Hall, next door, a passage was constructed between the two houses. In 1975, Braehead underwent a general renovation and in 1977 it was allotted to the Faculty of Education which needed more room. This faculty still occupies the old Gothic mansion which has not changed its appearance much, even after so many years.