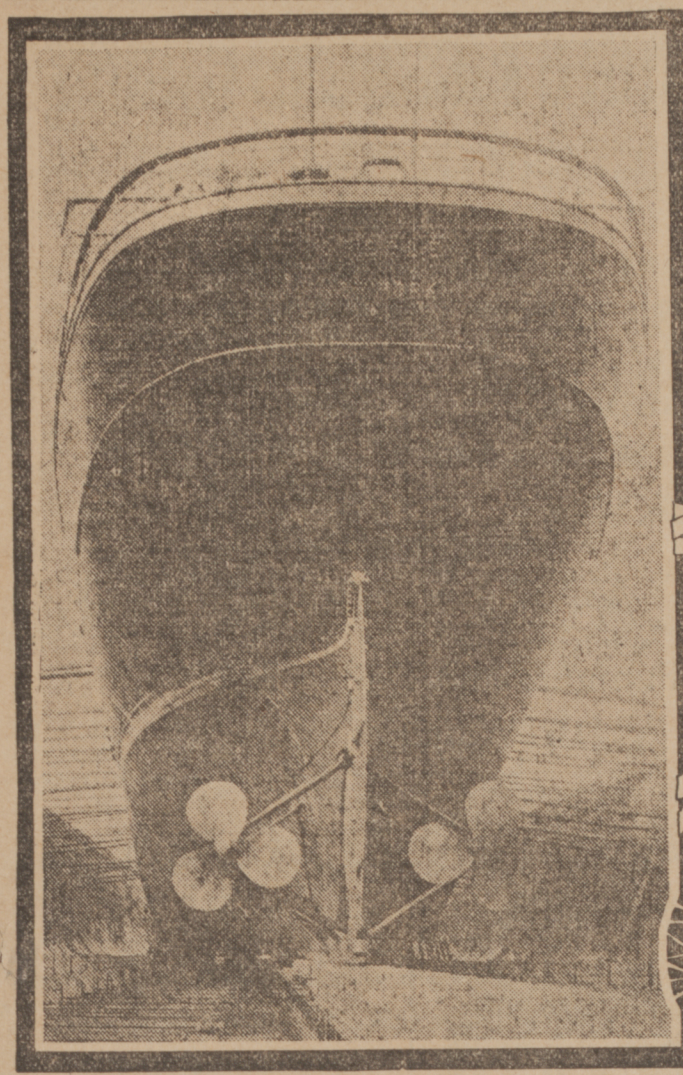
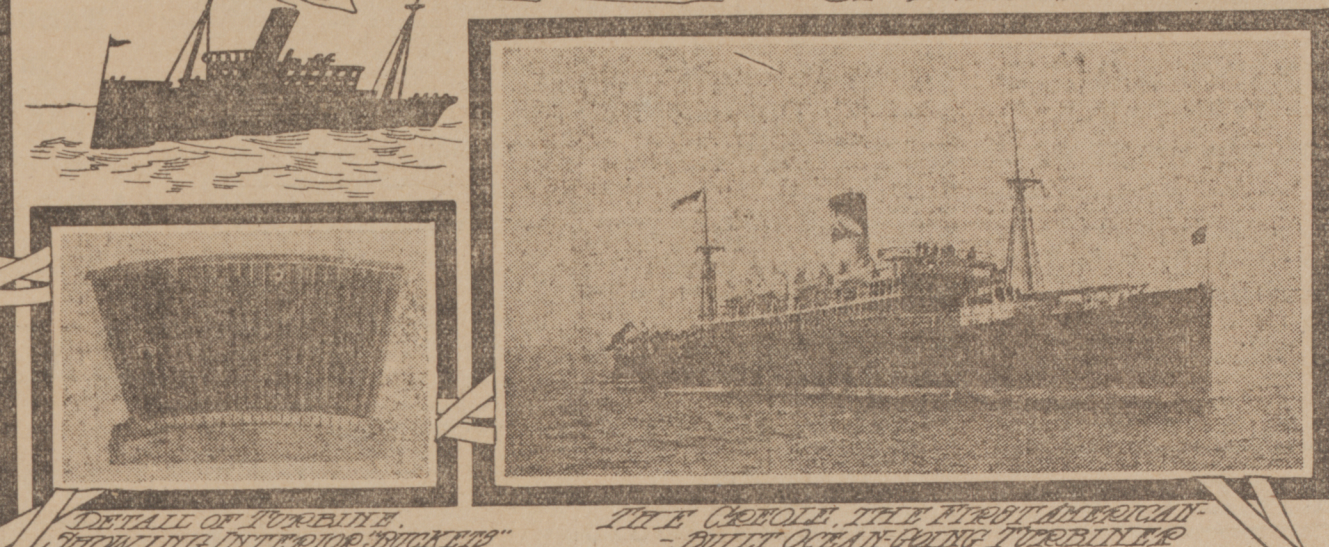


Marine Turbines, the New Power

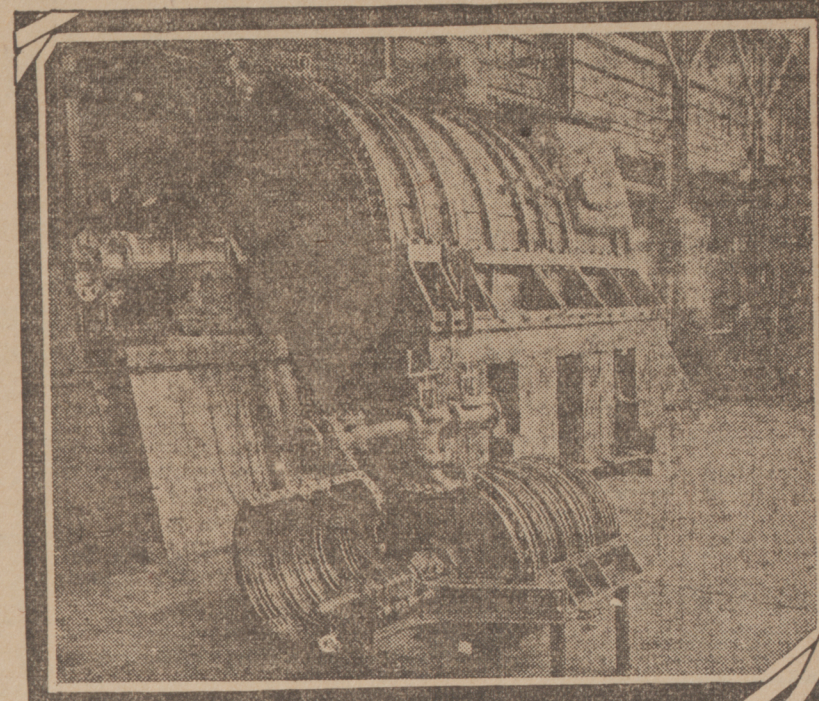
By THOMAS WILLSON



INTERNAL VIEW OF THE COROLLE IN
DETROIT SHOWING THE ADVANCEMENTS OF
THE TWO PROPELLERS



THE COROLLE, THE FIRST AMERICAN
-BUILT OCEAN-BOILING TURBINE



AT 8,000 HORSEPOWER AND A 250 TON WEIGHT
MARINE TURBINE, THE FIRST AMERICAN
-BUILT OCEAN-BOILING TURBINE

It is a far cry from the simple steam engine of the Clermont, the first vessel to be propelled by any power other than sail to the new American turbine steamers Yale, Harvard, Governor Cobb and Corolla, all of which have been built within the space of a few years. The turbine engine, for the use of steam in the reciprocating class, the problem of thermodynamic action of steam to do the work for mankind.

What do you suppose Robert Fulton would say or think were he to have the privilege of seeing the vast strides that have been made in the building and equipping of vessels since his steamship plied the bosom of the Hudson River? It is more than likely he would be surprised, to say the least.

Despite the vast strides in the building of the past year or so and mark another evolution in the development of the application of conversion, without excessive loss, is a little nearer solution than it was in the days of Watt and Newcomen.

As a matter of fact, and one that is constantly a source of much investigation by marine engine builders, the reciprocating engine, with all its improvements and increased efficiency, is not so much of an advance over the engine produced by James Watt. This pioneer in engine building had the idea of converting heat by energy by allowing steam to expand behind a piston against a resistance corresponding to the pressure. In this respect he formulated a rule that has been applied by every inventor and while the theory giving the ideal efficiency of the process of conversion of heat power is that steam should be expanded from maximum

to minimum pressure and temperature and further, this expansion should be adiabatic. As is well known, however, this cannot be obtained in practical operation for the losses in the ordinary engine are largely due to the initial condensation of steam, the alternate heating and cooling of the cylinder walls; losses due to clearances in the cylinders and valve chambers, and to the heat rejected in the exhaust. In addition there is leakage, condensation, radiation and incomplete expansion, all of which will help to swell the total loss of from 40 to 50 per cent. of the steam used.

These figures apply to the better class of engines, for with old machines the loss is much greater. Besides this thermal loss there is considerable friction to be overcome in the ordinary type of even the very best engines that can be made, while there is of course much individuality among engines, some are more economical than others by reason of their type or where they are used, the percentage of friction will vary from 6 to 16, yet 10 per cent. is probably a fair average.

This being the case, the heat units utilized as work on the piston amounting to, say 50 per cent. of those available in the steam supplied, the total effective power delivered on the shaft would be about 45 per cent. of that available in the steam. In view of these defects, and with a full appreciation of the standard of excellence and efficiency of the modern reciprocating engine, was it any wonder that scientists have declared that there has not been much improvement during the past century or more?

Power, mechanical and personal, has

been sought in all ages and for the past hundred years the development of the reciprocating engine has received so much attention that it has become generally believed to be the ideal power despite the faults named above. Electricity, too, has been taken up and developed to a remarkable degree, but it has remained for Mr. C. A. Parsons, of England, and Mr. Curtis, of this country, to bring out a new application of an old, old theory and to produce what promises to be the coming power for merchant and naval vessels. This new power is the marine turbine engine, wherein one has the direct application of steam to "wheels within wheels" attached directly to shafts for the turning of the propellers.

The most remarkable feature of the turbine is that it is not nearly so tall as the standard type of marine engine, and

thus it might be said to hang closer to the centre of gravity of the ship. For instance, this table of dimensions will demonstrate:

TURBINE.		Feet.	Inch.
Length, over all	16	2	3
Width, over all	11	3	6
Height	21	9	
Center to center, and bearings	25	3	
Weight	153	tons	

By this there will be seen that there is with these two types of engines of about the same horsepower considerable in favor of the turbine, owing to its taking up less space in a part of the ship where every extra foot counts for much, for it means additional bunker room.

The first turbine was a land engine—that is to say, it was developed for land uses, and the first inventor was Hero, of Alexandria, several centuries ago. Then followed the use of the turbine, with water and gas as a propelling power, but for a number of years it was not deemed

EXPANSION ENGINE.

32 1-2 inch 53 inch 61 inch 61 inch 48 inch stroke; 120 revolutions per minute.

THE WORLD OF SHIPPING

MINIATURE ALMANAC.		Sun	Tides
1908.	Rises Sets	High	Low
March 15	6:28 6:58	10:55	5:04
16	6:37 7:07	11:31	5:44
17	6:46 7:16	12:09	6:25
18	6:55 7:25	12:49	7:06
19	7:04 7:34	1:30	7:47
20	7:13 7:43	2:11	8:28
21	7:22 7:52	2:52	9:09
22	7:31 8:01	3:33	9:50

The time used is Atlantic Standard.

VESSELS BOUND TO ST. JOHN.	
Steamers.	Destinations.
Bengore Head, Mar 15-Ard, Harry B. Buchanan, Halifax; Alberta; Evans, Boston.	
Empress Britain, Mar 15-Ard, Liverpool Mar 6.	
Montcalm, Mar 15-Ard, Bristol, Mar 11.	
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PORT OF ST. JOHN.

DOMINION PORTS.	
Arrivals.	Departures.
Liverpool, Mar 14-Old, schr Harry B. Buchanan, Halifax; Alberta; Evans, Boston.	
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BRITISH PORTS.

Arrivals.	
Nassau, Mar 9-Ard, Star Bornu, (Br) Pierce, Halifax for Havana (and proceed) 11th, schr Fannie Prescott, Fountain, Norfolk Va.	
Fastnet, Mar 15-Passed star Grampian, (Br) Outram, St. John N. B. and Halifax for Liverpool.	
Avonmouth, Mar 14-Sid, stmr Monmouth, St. John.	
London, Mar 14-Sid, stmr Montreal, Halifax and St. John.	
Scilly, Mar 16-Passed, stmr Pomeranian, St. John and Halifax for London and Havre.	
Liverpool, Mar 16-Ard, stmr Grampian, St. John and Halifax.	
Janica, Mar 10-Sid, stmr Boston (Nor), Hoistland, Halifax via Turks Island, etc.	
St. John N. B., Mar 2-Ard, bark Minnie, Jackson, Barbados; Lake Simcoe, Pizarr, Pernambuco; schr Canada, Conard, Barbados; Ethel, Herold, Pigeon, had sails blown away and bulwarks injured in heavy weather off the coast.	
In port Mar 3, schr Helen Stewart, Miller, for Pernambuco, sail same day.	

FOREIGN PORTS.

Arrivals.	
New York, Mar 16-Old, bark Lyndhurst, Parnell, Baltimore.	
St. John, Mar 16-Ard, schr Delta (Br) Sherman, Parnell, Baltimore.	
Portland, Me., Mar 16-Ard, stmr Calvin Sherman, Parnell, Baltimore.	
Old-Sid, stmr Ring (Nor), Parnell, Baltimore.	
St. John, Mar 16-Ard, schr Delta (Br) Sherman, Parnell, Baltimore.	
New London, Conn., Mar 16-Sid, schr Avonmouth, Mar 14-Sid, stmr Monmouth, St. John.	
Portsmouth, N. H., Mar 16-Sid, schr R. D. Spear, (from Port Reading, Rockland), Halifax, P. K. Stetson, (from Weymouth), St. Andrews, Madagascarr, (from Plymouth), Calais; Arthur Clifford, (from Boston), Mount Desert.	
Salem, Mass., Mar 16-Sid, schr Norman, New York; Alameda Willey, St. John (N. B.)	
New York, Mar 16-Old, bark Lovisa, Bos-	

ton; schr Mary Hendry, Bridgewater (N. S.)

On going into the country Dr. Luman found eight cases of the disease. These were removed to the quarantine pest house this morning.

John H. Graham

Blissville, March 16.—The funeral of John H. Graham, of Juvenile Settlement, who died yesterday of heart failure on Friday last, was held yesterday under the auspices of the I. O. F., and was largely attended. Mr. Graham was in excellent health up till the day of his death. About a week ago he was called upon to mourn the death of his mother, who was called away at the age of eighty-two. On Friday last Mr. Graham was engaged in hauling hay from a stack some distance from his home, and while so engaged he was overcome by a severe attack of heart failure, and died.

Mr. Graham was a member of Court Sunbury, No. 1289, I. O. F., and the members of the court attended in a body. The funeral was held in the Methodist church, of which deceased was a prominent member, and the services were conducted by Rev. T. Spencer Crisp, who preached an eloquent sermon from the words, "Be of good cheer. Be not afraid." The pallbearers were brother Foresters—Milton A. Smith, Grover Patchell, H. D. Mersereau and Robert Patchell. H. H. Smith acted as director.

A few years ago Mr. Graham's younger brother, S. Ted Graham, was also buried with Forester honors, and the two brothers are the only members of Court Sunbury removed by death since its founding in 1883.

THE SOVEREIGN BANK

Toronto, March 16.—Shareholders of the Sovereign Bank, at a meeting here today, ratified the deed of indenture by which the entire assets and business of the bank were transferred to thirteen chartered banks of Canada, headed by the Bank of Montreal and Canadian Bank of Commerce.

A resolution was adopted appointing a committee of shareholders composed of William Wallace, Toronto; A. T. MacLachlan, Stratford, and Senator Baird, of Perth (N. B.), who should confer with the present management and trustees of the bank and report back to the shareholders at the annual meeting in June.

A resolution asking for a government investigation was moved and seconded, but was not put to the meeting.

Clouds, rent with vivid flashes of lightning, while rain, hail and snow fell alternately, was the phenomenon served up the other night. During the display, if pyrotechnics the mercury fell 12 degrees.

LYONS THE ADVERTISED

Box 203 - St. John, N. B.

Smallpox on the North Shore

Campbellton, N. B., March 16.—Smallpox which has been so prevalent during the winter in this county broke out in the Tobique country, five miles back of this town. A few days ago a case was brought to the notice of a Mr. McDonald, chairman of the board of health, who immediately notified Dr. Luman to look into the matter.

DON'T WAIT

Chief Officer for Maritime Provinces, 91 Prince William Street, St. John, N. B. McLEAN & McLEAN, Managers.

FINANCIAL and COMMERCIAL

J. S. BACHE & CO'S REVIEW

OF THE STOCK MARKETS

Last Week Was One of Sunshine, but There Are Still Causes for Disquiet — Restored Confidence Needed — Good Sale for Bonds.

NEW YORK, March 15.—The week has been one of sunshine in the money market under the exhibition of rising prices after the long gloom all good news has been welcomed, and everything unfavorable treated as merely passing clouds. While it is well to welcome this exhibition of returning confidence, it is also well to remember that much cloudy weather will have to be encountered before settled prosperity will prevail. When the nominations are settled we shall have Bryan scarce, together with crop scares, to depress the slowly gaining business progress. For these reasons the public is not buying securities freely, and professionals alone cannot make a bull market.

The fact that remains, however, is that liquidation has spent its force and that a very large amount of securities have been bought and put into strong boxes, and are thus in the possession of people who actually own them. A number of these people are far-seeing enough to have discounted adverse developments and alarms that will surely come, and are holding their property for a long carry. When the large advance actually comes this fact will have much to do with making the movement a speedily upward one. There is no question that confidence is returning and that business conditions in many directions are becoming better. The surplus of the freight cars, up to nearly 400,000 at the worst, is now less than perhaps three-quarters of that number. The production of pig iron is increasing and is feeling the effects of slight improvement in consumption. Railroad earnings continue to show large decreases in gross and net, but with many companies it is a remarkable fact that these figures are after all in excess of those of 1905, and the Great Northern's last statement shows, strange to say, a slight increase in net earnings over that of a year ago—though last year's severe winter has something to do with this. The question of wages is still unsettled, but railroads are evidently reducing in some way their operating expenses and will continue to do so. A fluttering indication of the strike era is showing itself, and labor troubles may still have to be reckoned with. The railroads are gradually, however, improving the quality and efficiency of the labor which they employ, and this notwithstanding the prejudice officially engendered by attempts to thwart reductions. We hear rumors of the president's proposition to allow the elevation of freight rates to offset the necessity of wage reductions. This uneconomic handling of business conditions to defeat the laws of supply and demand would be regrettable, placing upon the shipper the burden of supporting the laboring classes with pros-

perity wages, and making it less possible for the money market to again obtain prosperity. The money situation appears to be completely settled, the gradual withdrawal of government deposits obviating excessive supply. The prosperous condition of the farmer, continued to ease the pressure, and possibly because of it, in that it has given him higher prices for his produce, is a notable factor of the situation. Farmers in the United States are enjoying an era of high record prices, and this furnishes in itself one of the strong bulwarks on which the money market rests. The larger industrial concerns are most of them feeling the benefits of an increase in business, at least from the lowest panic conditions, but this fact of recovery is perhaps too encouragingly considered because the competition is with the panic and possibly because of it, in that it has given him higher prices for his produce, is a notable factor of the situation. 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