

followed in the Mann furnace with satisfactory results. At Pittsburg, a Rider furnace has been erected, while at Chicago a Mann furnace is being completed. Everywhere, indeed, the necessity for this work is becoming more apparent. In a recently published report of the Local Government Board, Great Britain, is given in detail the construction of the best furnaces there. At Glasgow the system has been developed in all its details; at Birmingham the utilization of the dust-bin refuse as fuel for the reduction to poudrette of the contents of middens, has been most successful and economical in its results, while the Burnley bee-hive cremator has steadily grown in popular favor. In Ontario these systems have already been introduced. At Hamilton a somewhat crude cremator for dead animals has for two years been in operation, and Toronto has with some dubiety been considering the various systems. With so many successful experiments elsewhere we trust that energy will be exhibited in this direction, and that many of the larger towns and cities will, ere long, be consuming their refuse with advantage to the public health and economy to the municipalities.

Waterworks and Sewerage Systems.

Cornwall has under contemplation the construction of a system of sewerage devised by Mr. Willis Chipman, C.E., of Brockville. He adopts the principle of separate sewers as the most desirable for the town, although in deference to the wishes of the ratepayers of one street, he advises a larger pipe for carrying off storm water. Automatic flushing tanks are recommended, situated at the head of each, for preventing accumulation should the ordinary flow prove insufficient for cleansing.

With reference to the plumbing he says: "Unless these works are done in accordance with modern methods, the benefits to be derived from sewers are more than doubtful. The gas from a self-cleansing sewer is not dangerous to health and is inoffensive if diluted with air even in small quantities. Any sewage entering the pipe will be discharged into the St. Lawrence within eighty minutes. It will then be seen that all sewage of the town will be discharged before the commencement of putrefaction."

He adopts the Waring idea that with such sewers no traps be placed on the house drain, but that it be unobstructed from its junction with the street sewer to its opening above the roof of the building, serving thus as a main ventilator for the whole house system. Speaking of the popular belief that a four-inch pipe is not large enough for large buildings Mr. Chipman says: "when in Schenectady, N.Y., last year examining their sewer system, then in operation three years, I was shown what is probably the largest building in America drained by a four inch pipe. This building is 50 feet wide by 100 feet long, supplied with 23 water closets, the roof of the building being surrounded with a parapet from two to six feet high. All the sewage from this building and all the roof water was carried through a four inch pipe to the street sewer. Even with the heaviest showers it has never been known to run full. We congratulate Cornwall on the likelihood of having a system which will do it credit."

Peterborough has under contemplation a system of sewerage, and has issued a circular asking for competitors in making plans for a complete system of sewerage; a prize to be awarded to him who has satisfied the demands of impartially selected examiners.

COLLEGE CLOSING

COLLEGE CLOSINGS AND CONFERMENT OF DEGREES.

The annual closing of the various medical colleges and schools has taken place, and there will be found below complete lists of the graduates. Of those who have taken degrees, a very considerable number presented for examination before the Royal College of Physicians and Surgeons of Ontario, while the following obtained a license to practice:—

LICENTIATES.—E. C. Arthur, Brighton; A. E. Ardagh, Barrie; C. N. Anderson, Comber; L. Auld, Toronto; G. H. Bowlby, Berlin; G. Bell, Owen Sound; E. R. Bishop, Brantford; D. Bechar, Stoney Lake; W. J. Bradley, Ottawa; F. T. Bibby, Brighton; W. C. Barber, Toronto; S. T. Bell, Alliston; L. F. Cline, Springfield; D. M. Campbell, St. Thomas; Miss S. Carson, Strathroy; W. P. Chamberlain, Morrisburg; S. Cummings, Hamilton; J. C. Connell, Kingston; Frank P.